

FCC Radio Test Report

FCC ID: W59XWR600

This report concerns (check one): Original Grant Class II Change

Issued Date : Feb. 20, 2014 **Project No.** : 1401C155

Equipment: Daul Band Wireless 600N Router

Model Name : XWR-600 Applicant : Luxul Wireless

Address: 14203 Minuteman Drive, Suite 201,

Draper, UT USA

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Jan. 22, 2014

Date of Test: Jan. 22, 2014 ~ Feb. 19, 2014

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FCCP-3-1401C155	Original Issue.	Feb. 20, 2014

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1. CERTIFICATION

Equipment : Daul Band Wireless 600N Router

Brand Name : Luxul Xen™ Model Name : XWR-600 Applicant Luxul Wireles

Applicant Luxul Wireless
Date of Test : Jan. 22, 2014 ~ Feb. 19, 2014
Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-3-1401C155) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C					
Standard(s) Section FCC	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247(a)(2)	6dB Bandwidth	PASS			
15.247(b)(3)	Peak Output Power	PASS			
15.247(e)	Power Spectral Density	PASS			
15.203	Antenna Requirement	PASS			
15.209/15.205	Transmitter Radiated Emissions	PASS			

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 % \circ

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Ant. Range H / V U , (dB) NOTE		NOTE		
		9KHz~30MHz	V	3.79		
		9KHz~30MHz	Ι	3.57		
		30MHz ~ 200MHz	V	3.82		
			30MHz ~ 200MHz	Ι	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86		
DG-CB03	CISER	200MHz ~ 1,000MHz	Ι	3.94		
		1GHz~18GHz	V	3.12		
		1GHz~18GHz	Ι	3.68		
		18GHz~40GHz	V	4.15		
		18GHz~40GHz	Η	4.14		

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Daul Band Wireless 600N Router		
Brand Name	Luxul Xen™		
Model Name	XWR-600		
Model Difference	N/A		
Operation Frequency 5745~5825 MHz		5745~5825 MHz	
	Modulation Technology	802.11a/n:OFDM	
Product Description	Bit Rate of Transmitter	300Mbps	
	Output Power (Max.)	802.11a: 20.46 dBm 802.11n(20MHz): 22.69 dBm 802.11n(40MHz): 22.71 dBm	
Power Source	DC voltage supplied from AC/DC adapter. Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD Model: TEA12U-12100		
Power Rating	I/P: AC 100-240V~50/60Hz 0.3A O/P: DC 12V 1A		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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802.11a / 802.11n 20M					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785
161	5805	165	5825		

802.11n 40M			
Channel Frequency (MHz) Frequency (MHz)			
151	5755	159	5795

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	LUXUL	Q5095	Dipole	N/A	6.08	TX/RX
2	LUXUL	Q5096	Dipole	N/A	6.08	TX/RX

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G**_{ANT}, that is Directional gain=6.08.

4.

Operating Mode TX Mode	1TX	2TX
802.11a	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX A MODE CHANNEL 149/157/165
Mode 2	TX N-20MHZ MODE CHANNEL 149/157/165
Mode 3	TX N-40MHZ MODE CHANNEL 151/159
Mode 4	TX MODE

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test				
Final Test Mode Description				
Mode 4 TX MODE				

For Radiated Test					
Final Test Mode	Description				
Mode 1	TX A MODE CHANNEL 149/157/165				
Mode 2	TX N-20MHZ MODE CHANNEL 149/157/165				
Mode 3	TX N-40MHZ MODE CHANNEL 151/159				

Note:

(1) For radiated below 1G test, the 802.11a is found to be the worst case and recorded.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	MTool_2.0.0.3				
Frequency	5745 MHz	5785 MHz	5825 MHz		
IEEE 802.11a	73	73	72		
IEEE 802.11 n (20MHz)	63	62	61		

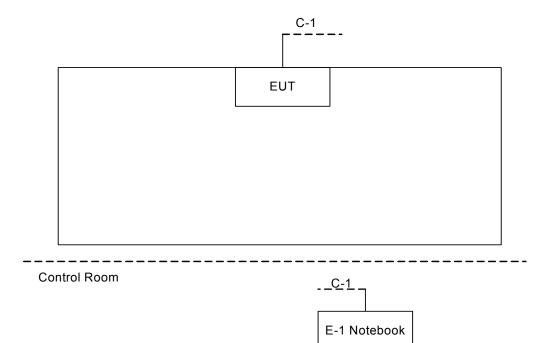
Test software version	MTool_2.0.0.3			
Frequency	5755 MHz	5795 MHz		
IEEE 802.11 n (40MHz)	63	64		

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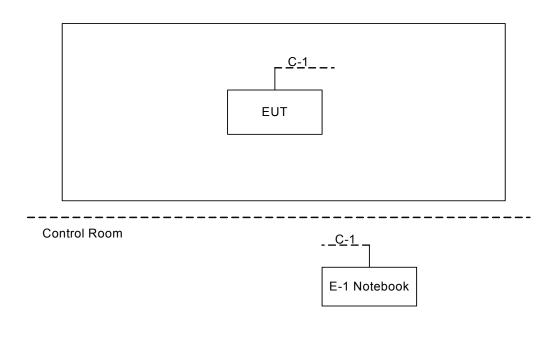


3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted TX Mode:



Radiated TX Mode:



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3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Notebook	HP	HP NB 331	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ45 Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Fraguency (MHz)	Class A (dBuV)		Class B	Ctandard	
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item –EUT Test Photos.

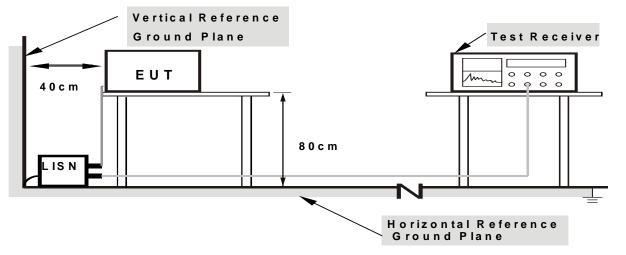
4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a " * " marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz o

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10

17.2227

37.56

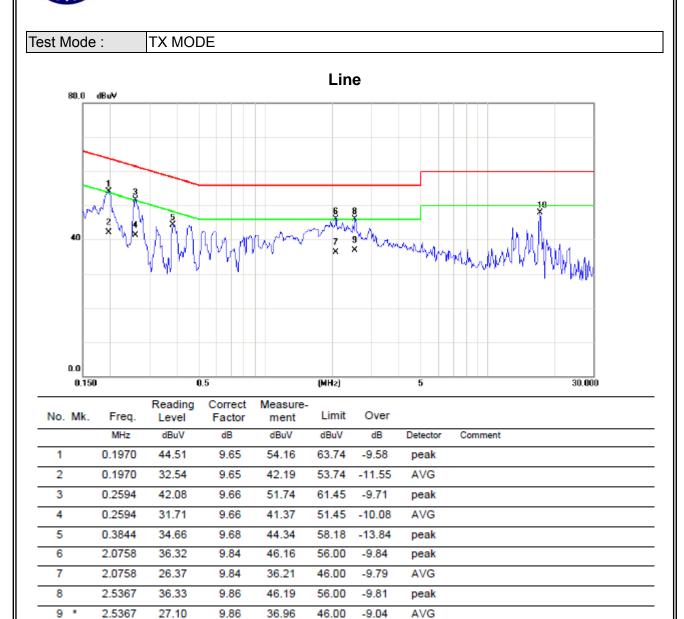
10.30

47.86

60.00

-12.14

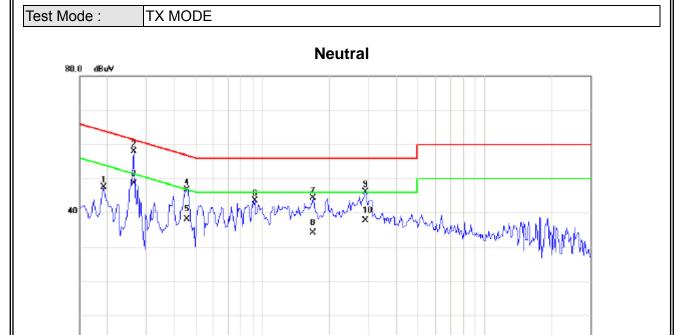
peak



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0.150



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1930	37.87	9.71	47.58	63.91	-16.33	peak	
2		0.2633	48.21	9.72	57.93	61.33	-3.40	peak	
3	*	0.2633	38.70	9.72	48.42	51.33	-2.91	AVG	
4		0.4586	36.95	9.74	46.69	56.72	-10.03	peak	
5		0.4586	28.41	9.74	38.15	46.72	-8.57	AVG	
6		0.9234	33.82	9.77	43.59	56.00	-12.41	peak	
7		1.6891	34.46	9.84	44.30	56.00	-11.70	peak	
8		1.6891	24.36	9.84	34.20	46.00	-11.80	AVG	
9		2.9078	36.29	9.89	46.18	56.00	-9.82	peak	
10		2.9078	27.76	9.89	37.65	46.00	-8.35	AVG	

(MHz)

30.000

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguency (MHz)	(dBuV/m) (at 3 meters)		
Frequency (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RBW / VBW	ANNUE / ANNUE for Dools A MULE / ANUE for Assert		
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

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4.2.2 TEST PROCEDURE

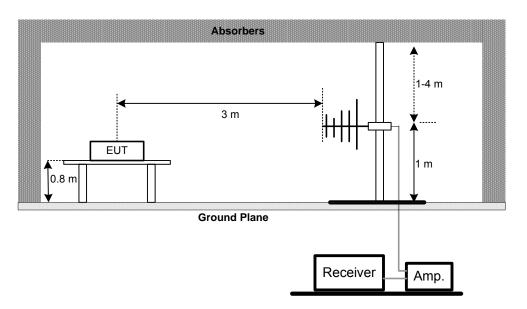
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

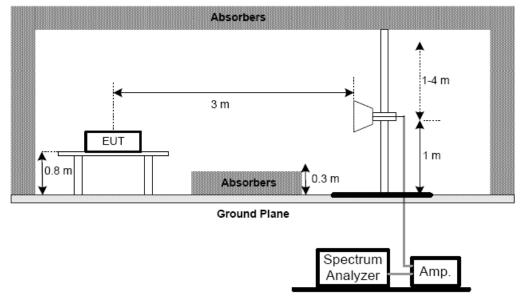
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



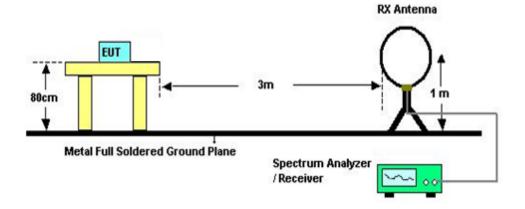
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(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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4.2.7 TEST RESULTS (9K~ 30MHZ)

Test Mode : TX Mode 5745MHz

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIE
0.0094	0°	16.86	23.27	40.13	128.18	-88.05	AV
0.0094	0°	19.52	23.27	42.79	148.18	-105.39	PK
0.0142	0°	18.89	23.27	42.16	124.56	-82.40	AV
0.0144	0°	20.54	23.27	43.81	144.56	-100.75	PK
0.0245	0°	16.19	24.02	40.21	119.82	-79.62	AV
0.0247	0°	19.75	24.02	43.77	139.82	-96.06	PK
0.0333	0°	18.16	23.46	41.62	117.16	-75.54	AV
0.0335	0°	20.41	23.46	43.87	137.16	-93.29	PK
0.4210	0°	18.64	19.99	38.63	95.12	-56.49	AVG
0.4230	0°	21.91	19.99	41.90	115.12	-73.22	PK
1.5270	0°	18.82	19.55	38.37	63.93	-25.56	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
0.0092	90°	18.03	24.30	42.33	128.30	-85.97	AVG
0.0093	90°	20.46	24.30	44.76	148.30	-103.54	PK
0.0235	90°	17.55	24.08	41.63	120.18	-78.55	AVG
0.0237	90°	20.33	24.08	44.41	140.18	-95.77	PK
0.0316	90°	18.43	23.57	42.00	117.61	-75.62	AVG
0.0318	90°	20.67	23.57	44.24	137.61	-93.38	PK
0.0427	90°	17.85	22.86	40.71	115.00	-74.28	AVG
0.0429	90°	20.39	22.86	43.25	135.00	-91.74	PK
0.2360	90°	17.45	20.43	37.88	100.15	-62.27	AVG
0.2390	90°	20.72	20.43	41.15	120.15	-79.00	PK
1.6760	90°	18.63	19.53	38.16	63.12	-24.96	QP

Remark

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

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4.2.8 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

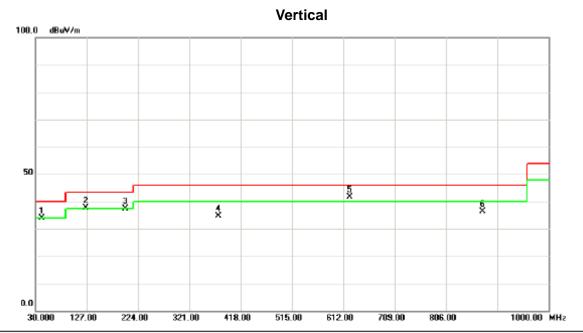
Remark

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

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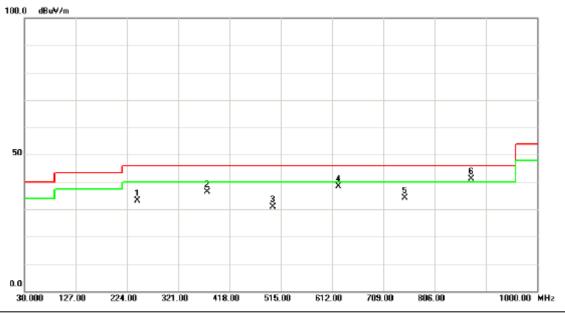
N	0.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		42.6100	48.22	-14.39	33.83	40.00	-6.17	peak	
	2	İ	125.0600	51.18	-13.61	37.57	43.50	-5.93	peak	
	3		199.7500	52.59	-15.18	37.41	43.50	-6.09	peak	
	4		375.3200	45.19	-10.66	34.53	46.00	-11.47	peak	
	5	*	624.6100	48.49	-6.86	41.63	46.00	-4.37	peak	
	6		874.8700	38.75	-2.48	36.27	46.00	-9.73	peak	

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Horizontal

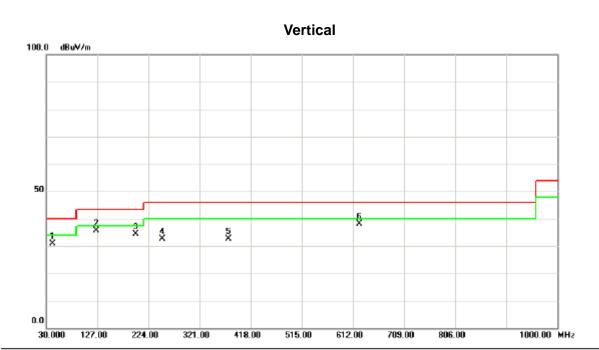


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		243.4000	48.07	-14.87	33.20	46.00	-12.80	peak	
2		375.3200	47.14	-10.66	36.48	46.00	-9.52	peak	
3		500.4500	41.10	-10.31	30.79	46.00	-15.21	peak	
4		624.6100	45.19	-6.86	38.33	46.00	-7.67	peak	
5		749.7400	38.94	-4.91	34.03	46.00	-11.97	peak	
6	*	874.8700	43.61	-2.48	41.13	46.00	-4.87	peak	

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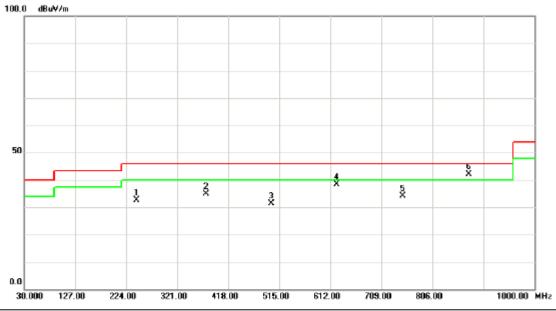
MHz dBuV dB dBuV/m dBuV/m dB Detector Comment 1 42.6100 45.22 -14.39 30.83 40.00 -9.17 peak 2 125.0600 49.18 -13.61 35.57 43.50 -7.93 peak 3 199.7500 49.59 -15.18 34.41 43.50 -9.09 peak 4 250.1900 47.61 -14.97 32.64 46.00 -13.36 peak 5 375.3200 43.19 -10.66 32.53 46.00 -13.47 peak 6 * 624.6100 44.99 -6.86 38.13 46.00 -7.87 peak		No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
2 125.0600 49.18 -13.61 35.57 43.50 -7.93 peak 3 199.7500 49.59 -15.18 34.41 43.50 -9.09 peak 4 250.1900 47.61 -14.97 32.64 46.00 -13.36 peak 5 375.3200 43.19 -10.66 32.53 46.00 -13.47 peak	-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
3 199.7500 49.59 -15.18 34.41 43.50 -9.09 peak 4 250.1900 47.61 -14.97 32.64 46.00 -13.36 peak 5 375.3200 43.19 -10.66 32.53 46.00 -13.47 peak	_	1		42.6100	45.22	-14.39	30.83	40.00	-9.17	peak	
4 250.1900 47.61 -14.97 32.64 46.00 -13.36 peak 5 375.3200 43.19 -10.66 32.53 46.00 -13.47 peak	_	2		125.0600	49.18	-13.61	35.57	43.50	-7.93	peak	
5 375.3200 43.19 -10.66 32.53 46.00 -13.47 peak	-	3		199.7500	49.59	-15.18	34.41	43.50	-9.09	peak	
	-	4		250.1900	47.61	-14.97	32.64	46.00	-13.36	peak	
6 * 624.6100 44.99 -6.86 38.13 46.00 -7.87 peak	_	5		375.3200	43.19	-10.66	32.53	46.00	-13.47	peak	
		6	*	624.6100	44.99	-6.86	38.13	46.00	-7.87	peak	

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Horizontal



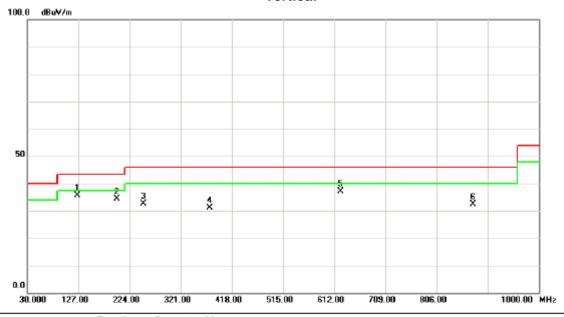
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		243.4000	47.57	-14.87	32.70	46.00	-13.30	peak	
2		375.3200	45.64	-10.66	34.98	46.00	-11.02	peak	
3		500.4500	41.60	-10.31	31.29	46.00	-14.71	peak	
4		624.6100	45.19	-6.86	38.33	46.00	-7.67	peak	
5		749.7400	38.94	-4.91	34.03	46.00	-11.97	peak	
6	*	874.8700	44.61	-2.48	42.13	46.00	-3.87	peak	

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Vertical



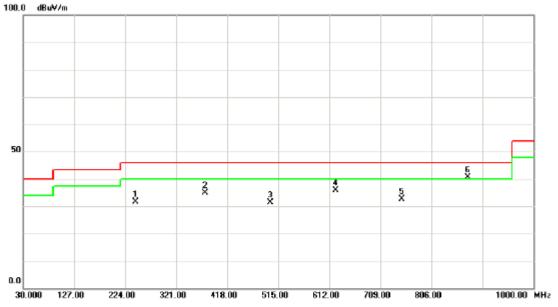
No.	Mk	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	125.0600	49.18	-13.61	35.57	43.50	-7.93	peak	
2		199.7500	49.59	-15.18	34.41	43.50	-9.09	peak	
3		250.1900	47.61	-14.97	32.64	46.00	-13.36	peak	
4		375.3200	41.69	-10.66	31.03	46.00	-14.97	peak	
5		624.6100	43.99	-6.86	37.13	46.00	-8.87	peak	
6		874.8700	34.75	-2.48	32.27	46.00	-13.73	peak	

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No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		243.4000	46.57	-14.87	31.70	46.00	-14.30	peak	
2		375.3200	45.64	-10.66	34.98	46.00	-11.02	peak	
3		500.4500	41.60	-10.31	31.29	46.00	-14.71	peak	
4		624.6100	42.69	-6.86	35.83	46.00	-10.17	peak	
5		749.7400	37.44	-4.91	32.53	46.00	-13.47	peak	
6	*	874.8700	43.11	-2.48	40.63	46.00	-5.37	peak	

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4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) "#" The radiated frequency is out of the restricted band. Limit line= fundamental 20dB

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Test Mode: TX A MODE 5745MHz

Freq.	Ant Pol	Ant.Pol. Reading Ant./CF		A	ct.	Lir			
r req.	Ant.i oi.	Peak	AV	AIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	V	36.28	25.41	44.34	80.62	69.75	86.46	78.32	X/E
5745.80	V	62.04	53.90	44.42	106.46	98.32			X/F
11490.36	V	41.60	30.80	18.47	60.07	49.27	74.00	54.00	X/H

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Lir	nit	
r req.	Ant.i oi.	Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	Н	30.00	17.74	44.34	74.34	62.08	79.34	70.52	X/E
5743.70	Н	54.93	46.11	44.41	99.34	90.52			X/F
11491.21	Н	39.59	29.70	18.47	58.06	48.17	74.00	54.00	X/H

Test Mode: TX A MODE 5785MHz

Freq.	Ant Pol	Ant.Pol. Reading		ding	Ant./CF	A	ct.	Liı	
i ieq.	Ant.i Oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5786.20	V	61.17	53.62	44.56	105.73	98.18			X/F
11571.24	V	40.77	30.20	18.67	59.44	48.87	74.00	54.00	X/H

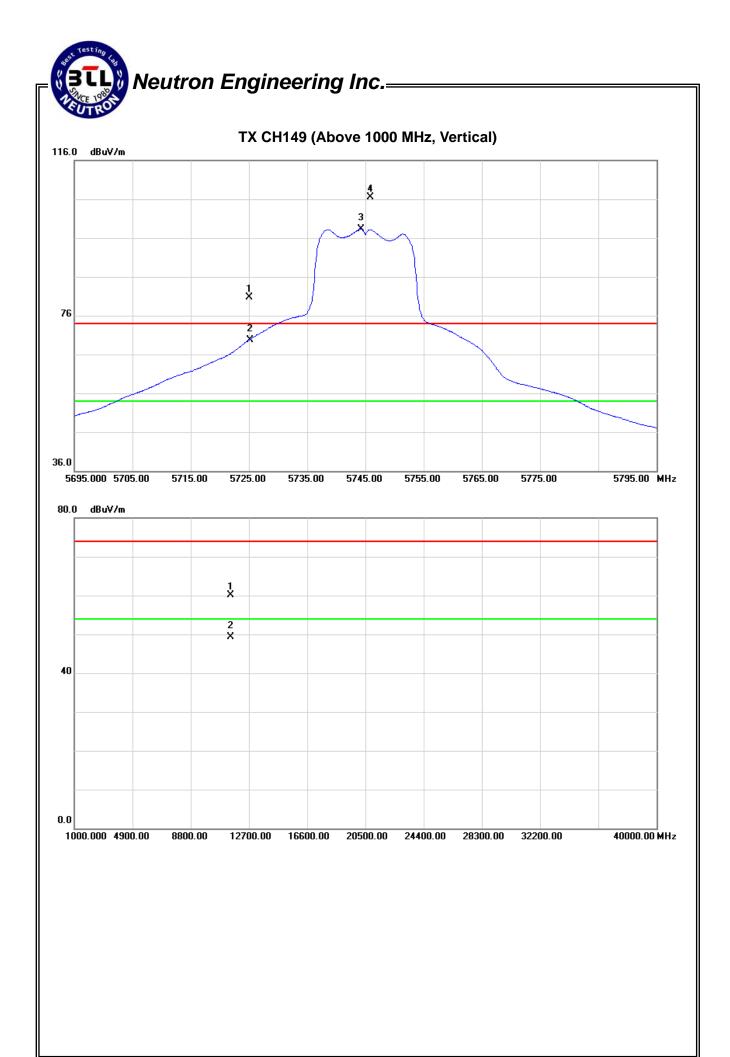
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5785.80	Н	51.03	43.58	44.56	95.59	88.14			X/F
11569.65	Н	38.39	28.76	18.67	57.06	47.43	74.00	54.00	X/H

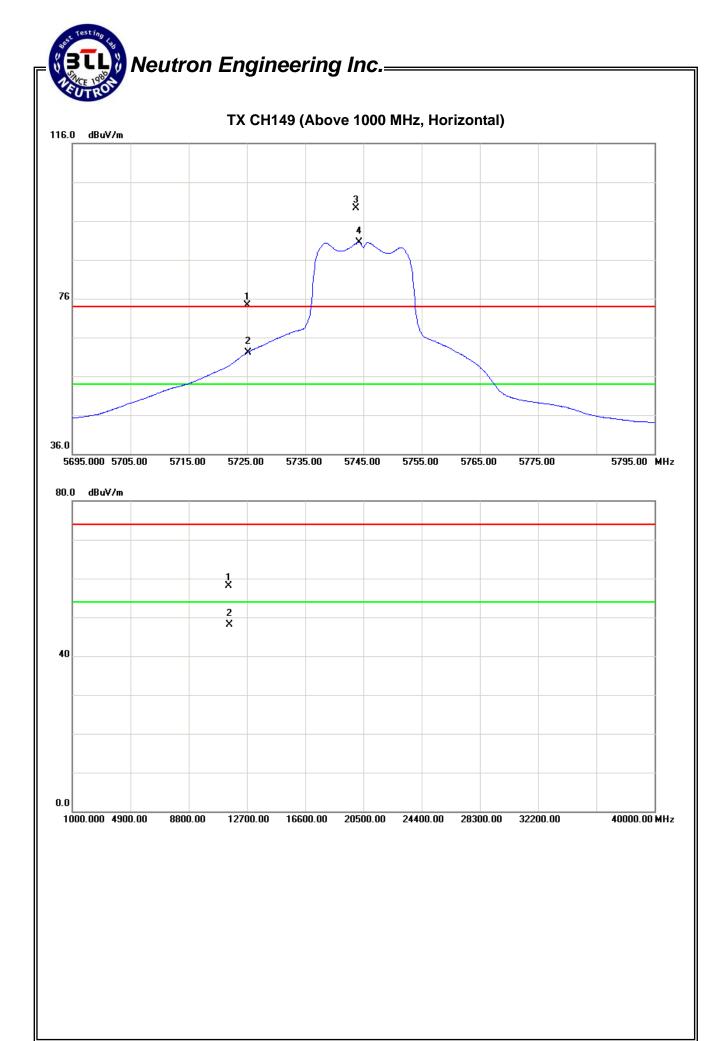
Test Mode: TX A MODE 5825MHz

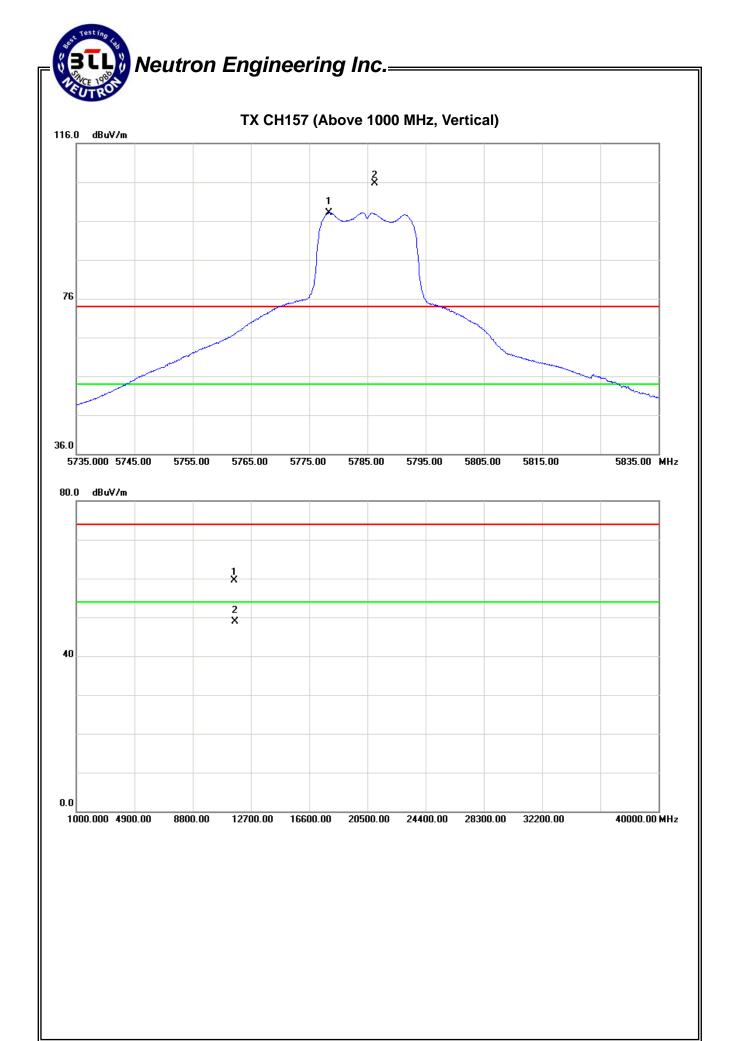
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5826.00	V	61.08	53.78	44.70	105.78	98.48			X/F
#5850.00	V	25.39	12.74	44.78	70.17	57.52	85.78	78.48	X/E
11650.67	V	41.49	31.40	18.87	60.36	50.27	74.00	54.00	X/H

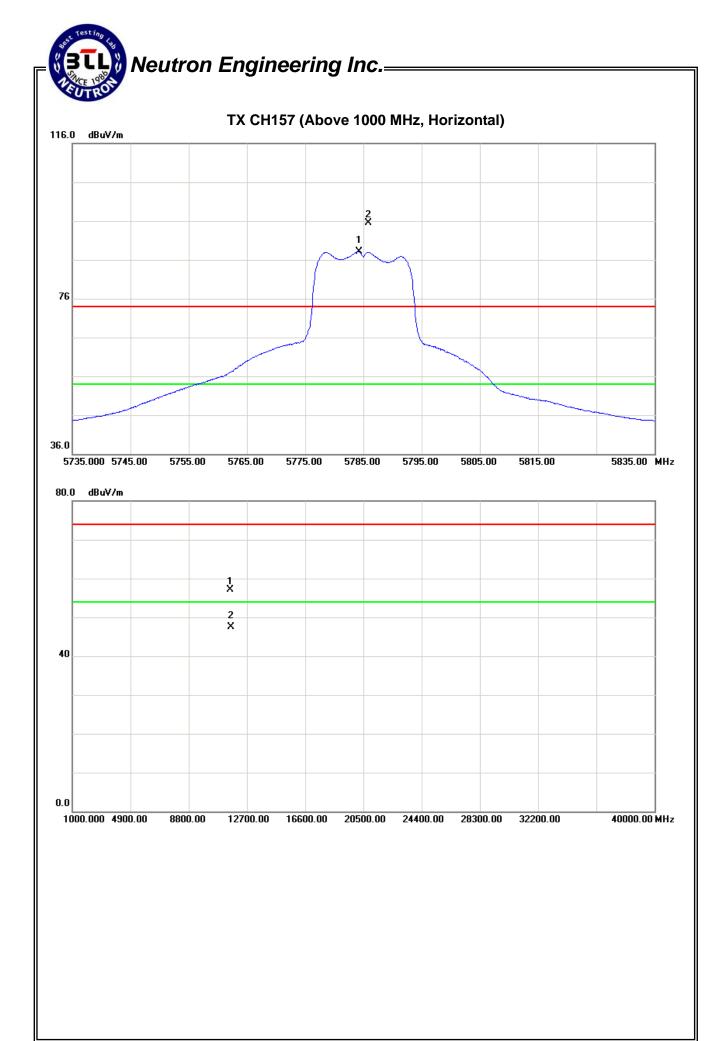
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./CF	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5823.40	Н	51.85	44.41	44.69	96.54	89.10			X/F
#5850.00	Н	17.37	4.23	44.78	62.15	49.01	76.54	69.10	X/E
11649.52	Н	39.31	29.41	18.86	58.17	48.27	74.00	54.00	X/H

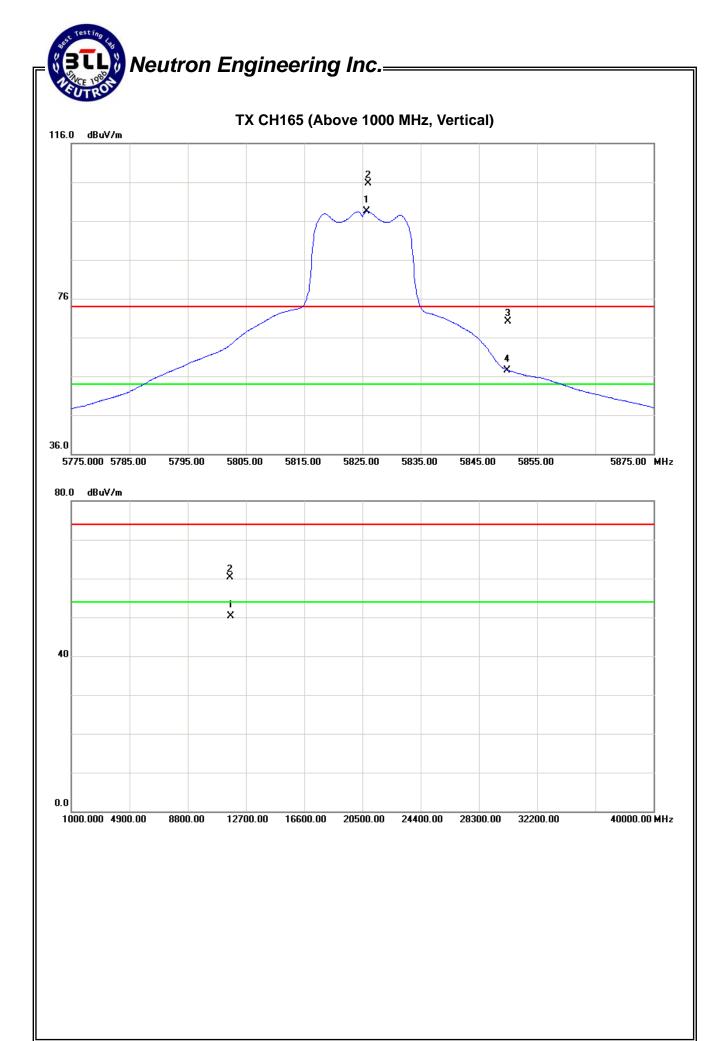
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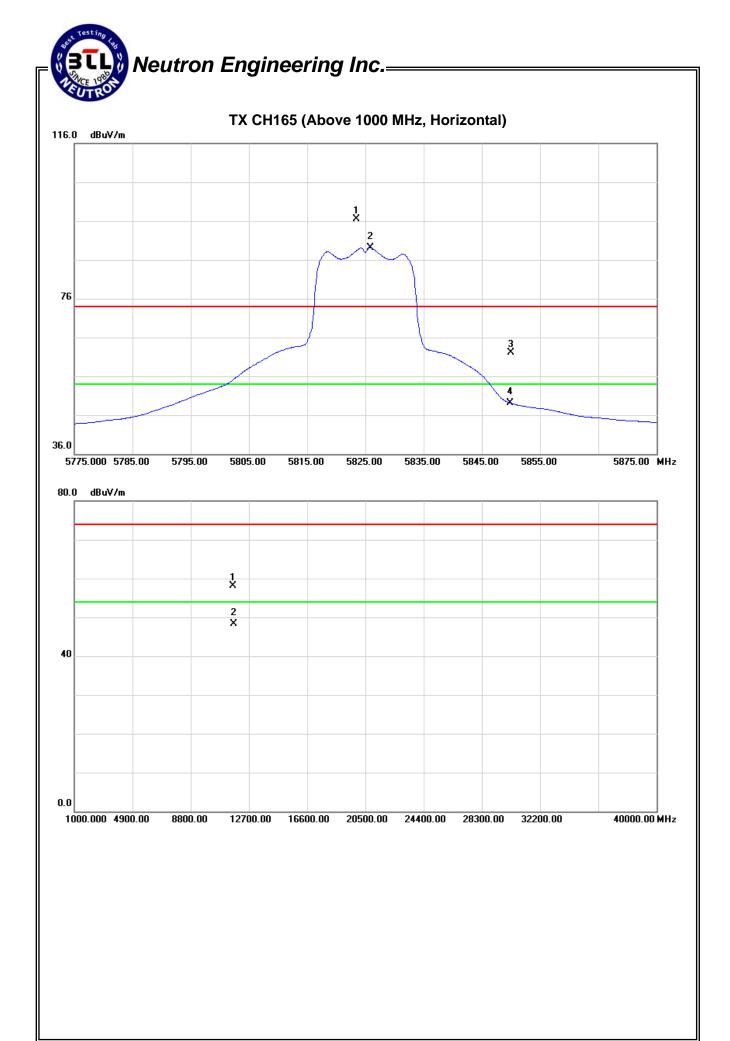














Test Mode :	TX N-20M MODE 5745MHz
I COL IVICAC .	

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir		
rreq.	Ant.r or.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	V	33.38	22.54	44.34	77.72	66.88	87.17	78.29	X/E
5743.90	V	62.76	53.88	44.41	107.17	98.29			X/F
11489.36	V	39.03	29.25	18.47	57.50	47.72	74.00	54.00	X/H

Freq.	Ant.Pol.	nt Pol Reading	ding	Ant./CF	A	ct.	Lir	Limit	
rreq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	Н	22.38	12.33	44.34	66.72	56.67	77.94	69.01	X/E
5743.10	Н	53.53	44.60	44.41	97.94	89.01			X/F
11490.35	Н	38.53	28.29	18.47	57.00	46.76	74.00	54.00	X/H

Test Mode: TX N-20M MODE 5785MHz

Freq.	Ant.Pol.	Rea	Reading Ant /CI	Ant /CE	Ant./CF Act.		Lir	nit	
r req.	Ant.i oi.	Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5779.30	٧	63.30	53.68	44.54	107.84	98.22			X/F
11570.95	V	40.26	29.43	18.67	58.93	48.10	74.00	54.00	X/H

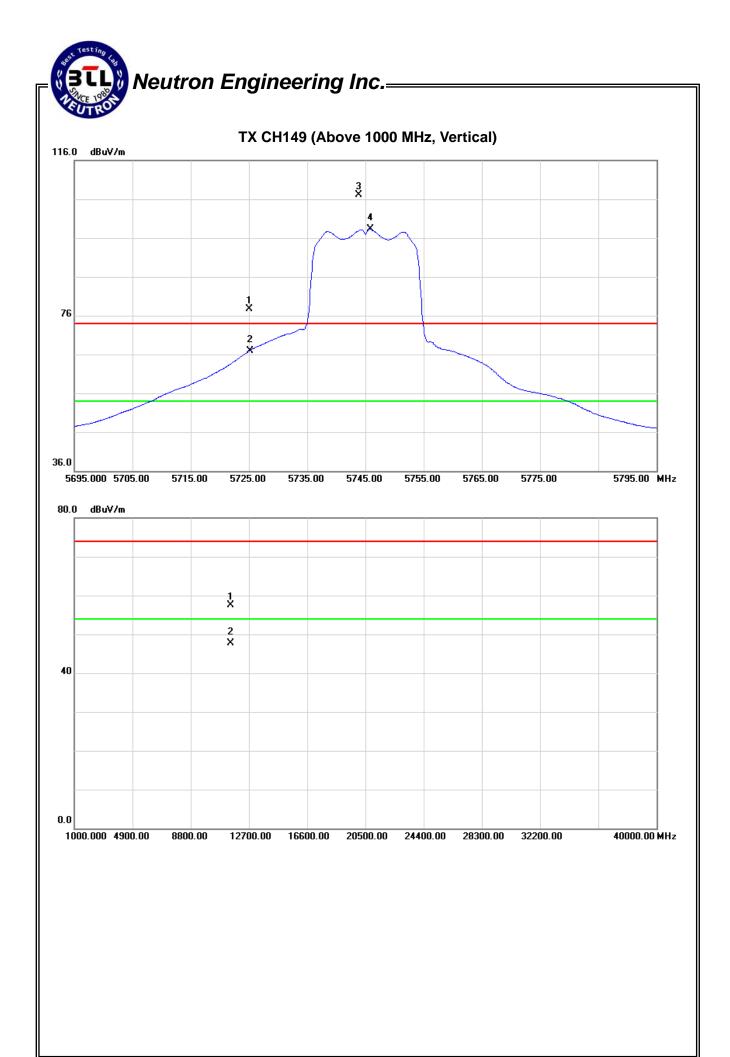
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
i ieq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5778.40	Н	53.71	44.10	44.54	98.25	88.64			X/F
11569.95	Н	37.63	28.41	18.67	56.30	47.08	74.00	54.00	X/H

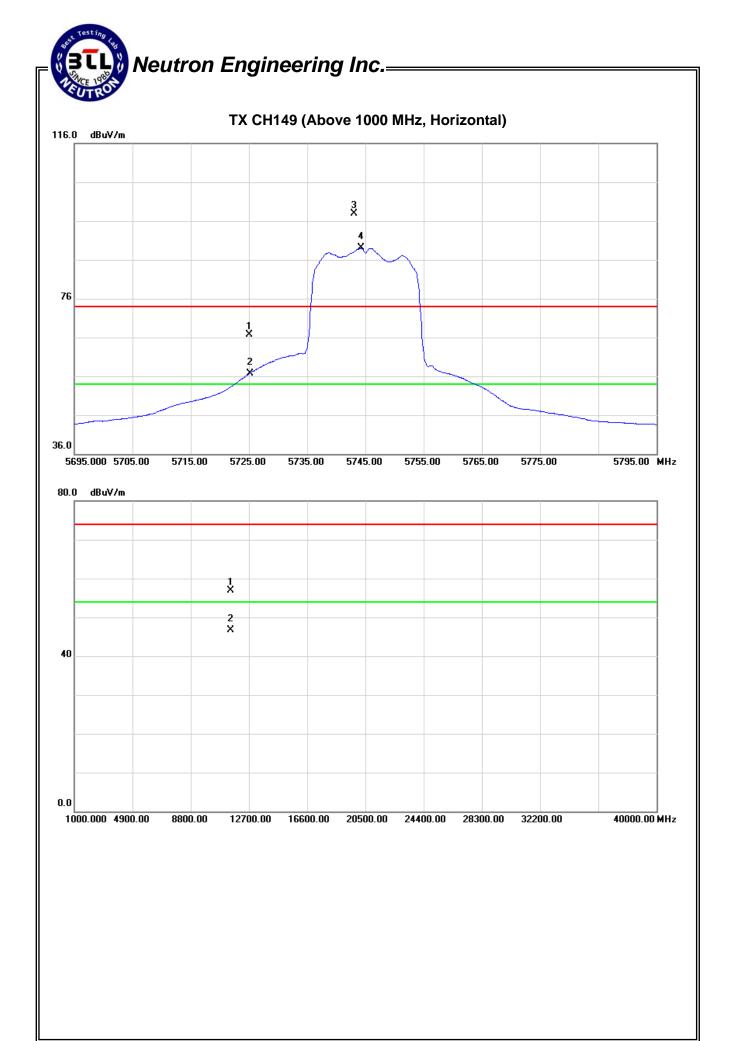
Test Mode: TX N-20M MODE 5825MHz

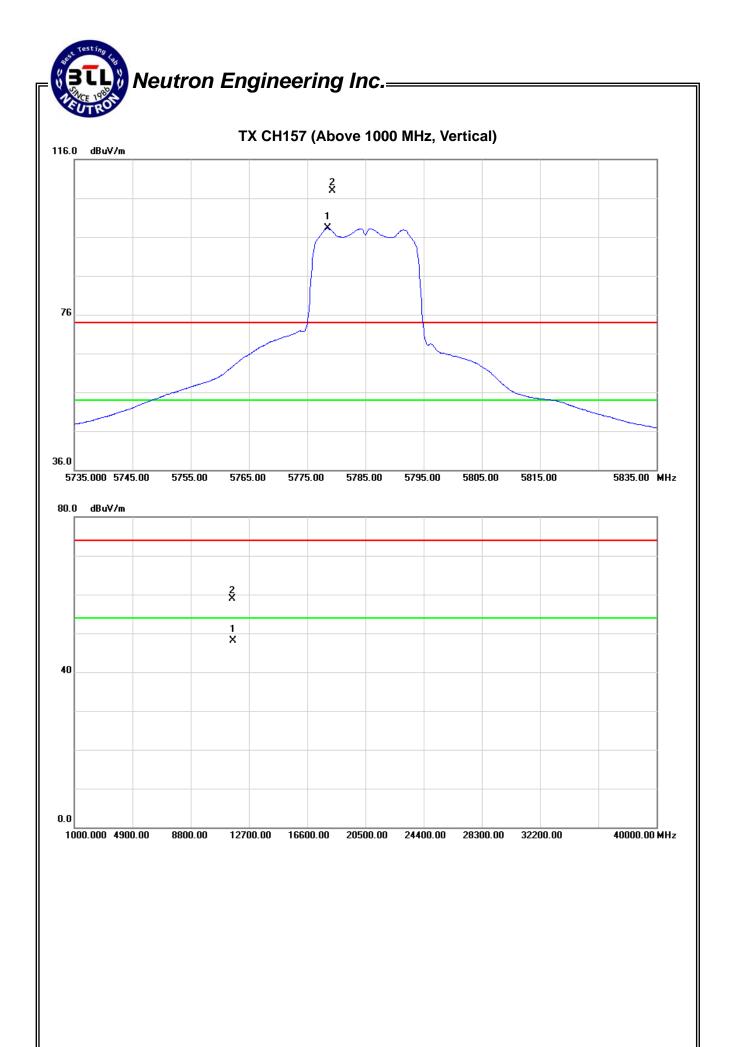
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Lir	nit	
rreq.	AIILI OI.	Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5824.30	V	61.32	53.10	44.69	106.01	97.79			X/F
#5850.00	V	22.34	9.92	44.78	67.12	54.70	86.01	77.79	X/E
11649.62	V	39.69	29.74	18.86	58.55	48.60	74.00	54.00	X/H

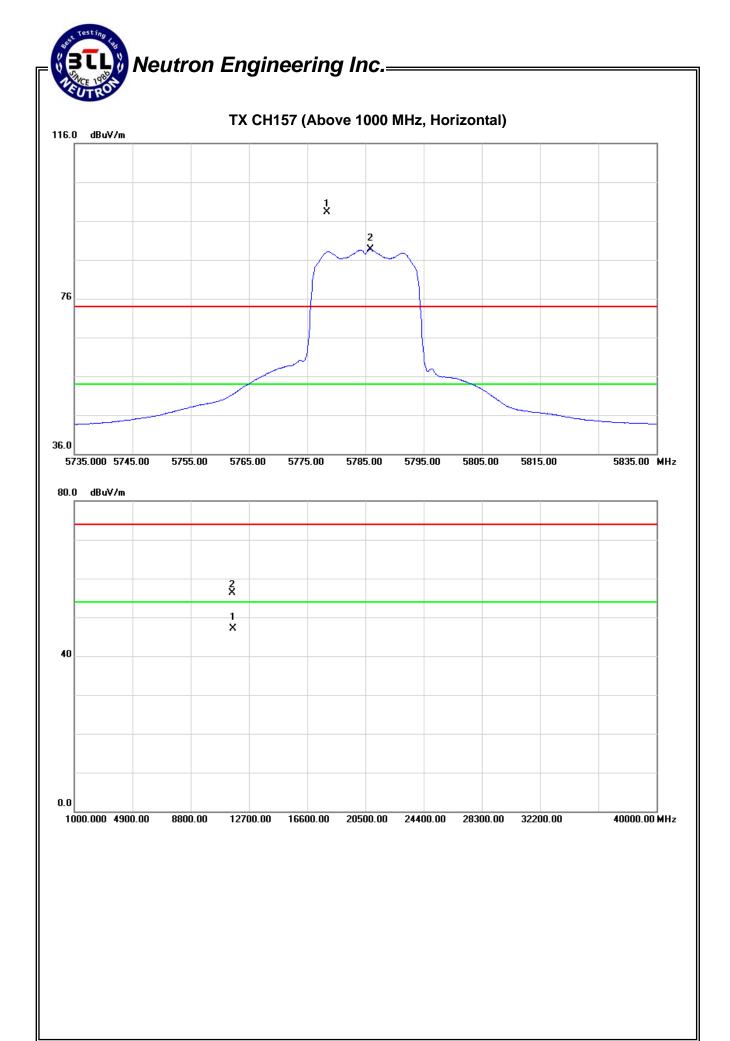
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	Act.		Limit		
rreq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
5826.00	Н	53.00	43.98	44.70	97.70	88.68			X/F	
#5850.00	Н	15.68	2.17	44.78	60.46	46.95	77.70	68.68	X/E	
11650.74	Н	37.37	27.85	18.87	56.24	46.72	74.00	54.00	X/H	

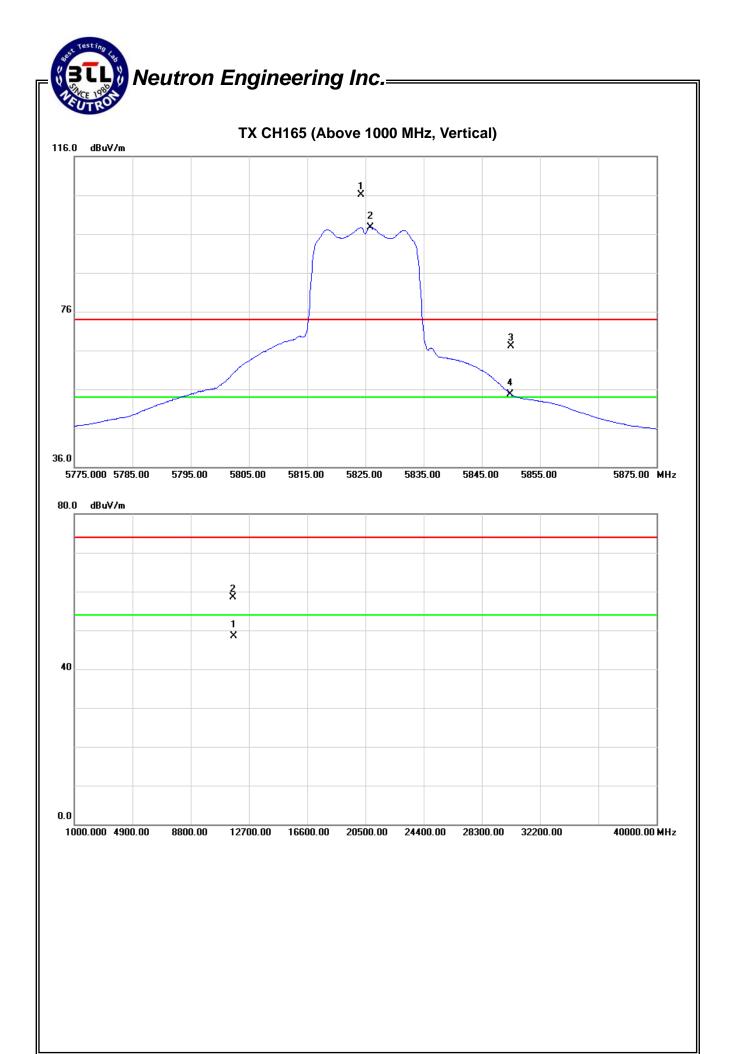
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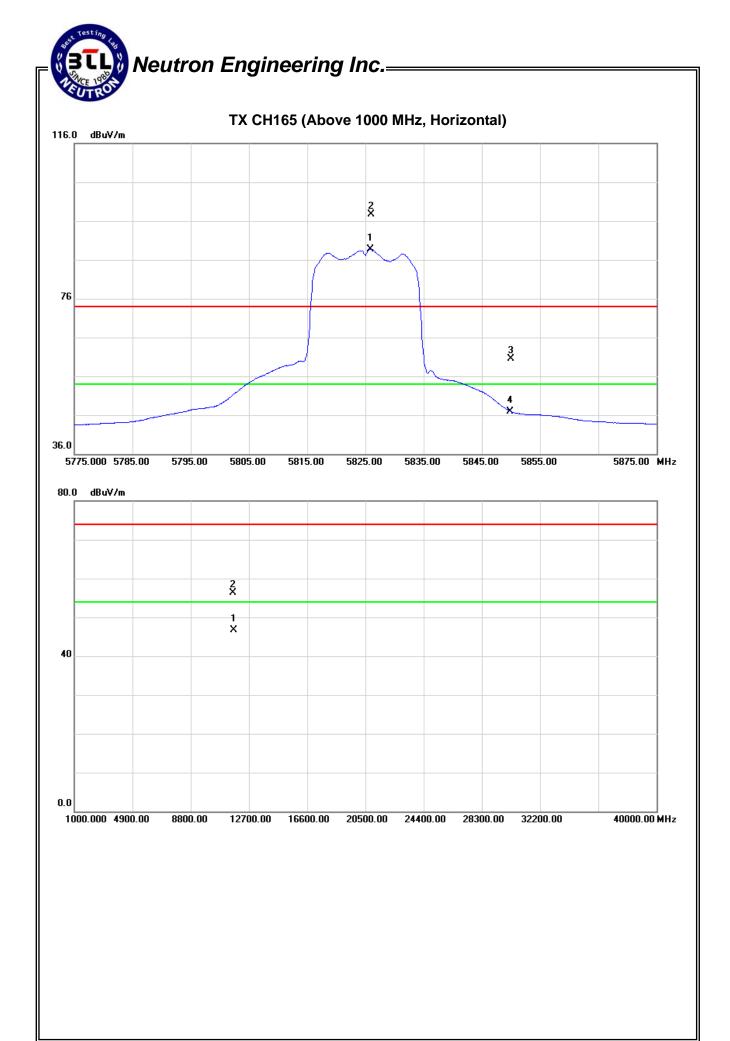














Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir		
rreq.	Ant.i oi.	Peak	AV	AIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	V	35.14	25.55	44.34	79.48	69.89	85.91	75.03	X/E
5747.00	٧	61.49	50.61	44.42	105.91	95.03			X/F
11510.93	٧	38.35	28.32	18.51	56.86	46.83	74.00	54.00	X/H

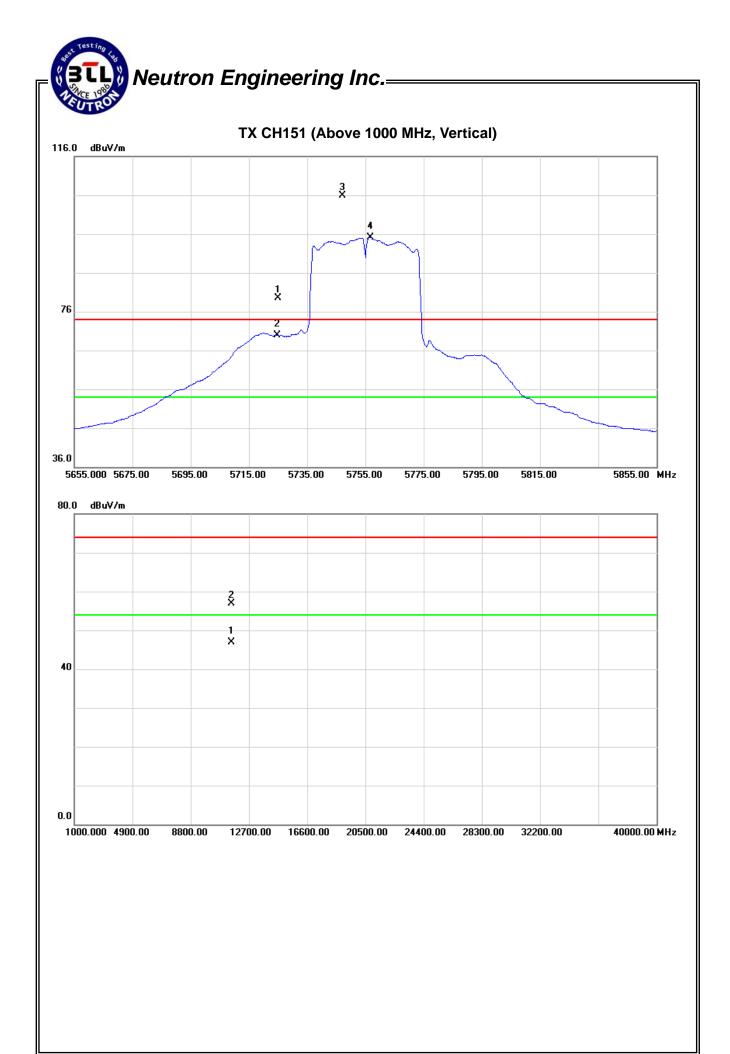
Freg.	Ant.Pol.	Rea	ding	Ant./CF	A	Act.		mit	
rieq.	Ant.i oi.	Peak	AV	Kill./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
#5725.00	Н	25.08	15.04	44.34	69.42	59.38	75.75	65.67	X/E
5763.60	Н	51.27	41.19	44.48	95.75	85.67			X/F
11511.42	Н	37.60	27.90	18.51	56.11	46.41	74.00	54.00	X/H

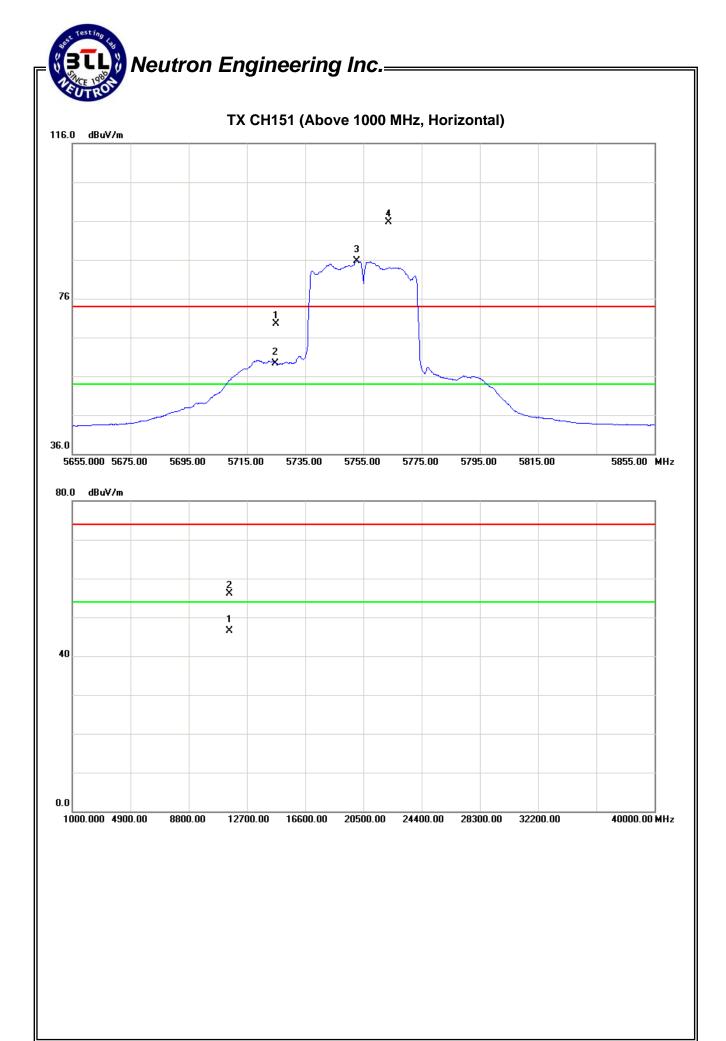
Test Mode: TX N-40M MODE 5795MHz

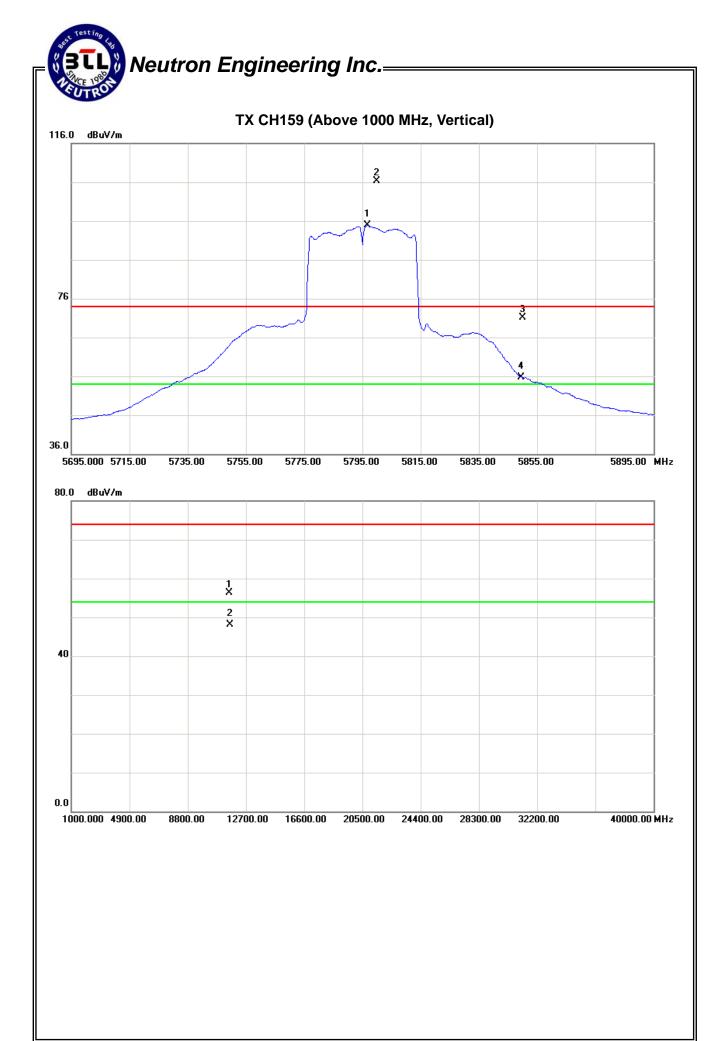
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	Act.		mit	
rreq.	Ant.i oi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5800.00	٧	61.77	50.25	44.61	106.38	94.86			X/F
#5850.00	V	26.39	10.93	44.78	71.17	55.71	86.38	74.86	X/E
11589.12	V	37.52	29.30	18.72	56.24	48.02	74.00	54.00	X/H

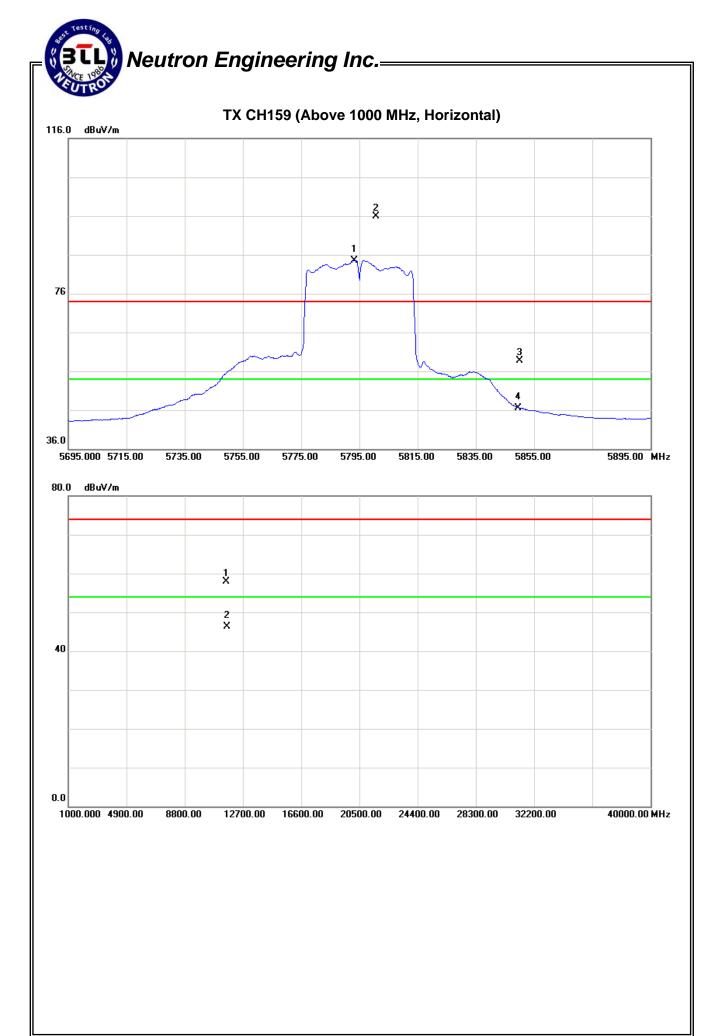
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Limit		
1169.	Ant.i oi.	Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
5800.80	Н	51.34	39.93	44.61	95.95	84.54			X/F
#5850.00	Н	13.89	1.80	44.78	58.67	46.58	75.95	64.54	X/E
11590.62	Н	39.25	27.57	18.72	57.97	46.29	74.00	54.00	X/H

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5. BANDWIDTH TEST

5.1 Applied procedures

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	5725 - 5825	PASS	

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

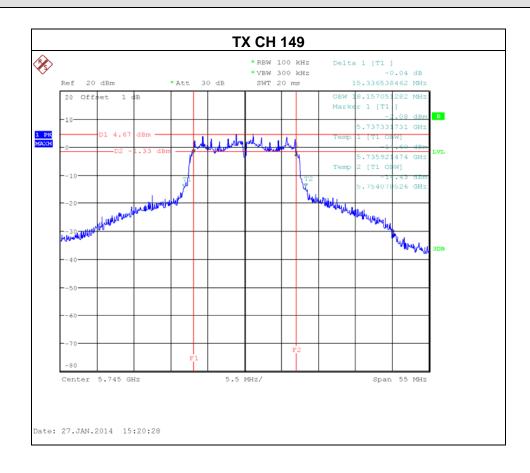
5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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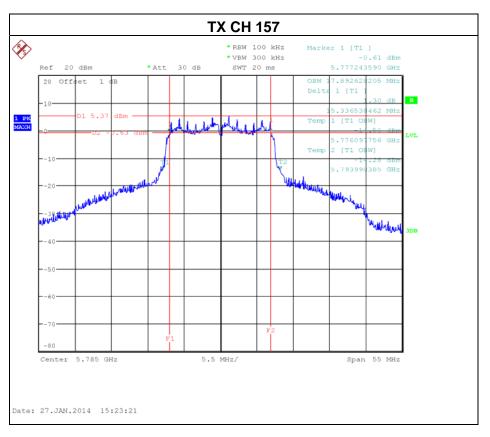
5.1.6 TEST RESULTS

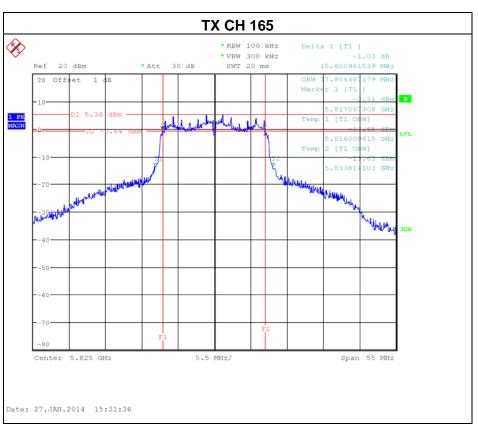
Test Mode: TX A Mode_CH149/157/165



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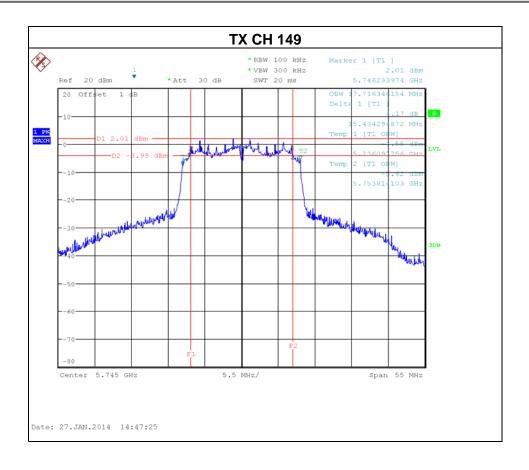






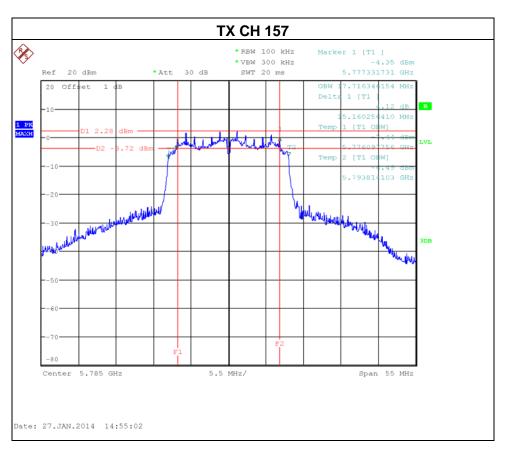
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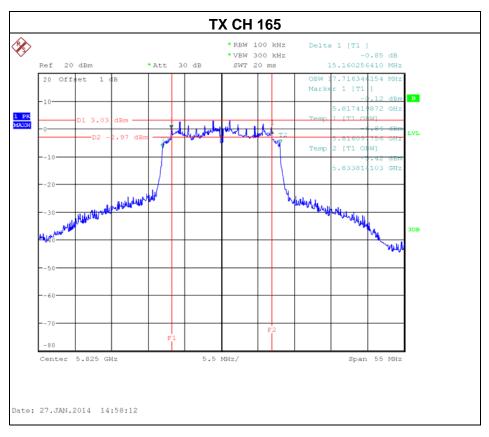
Test Mode: TX N-20MHz Mode_CH149/157/165_ANT 1



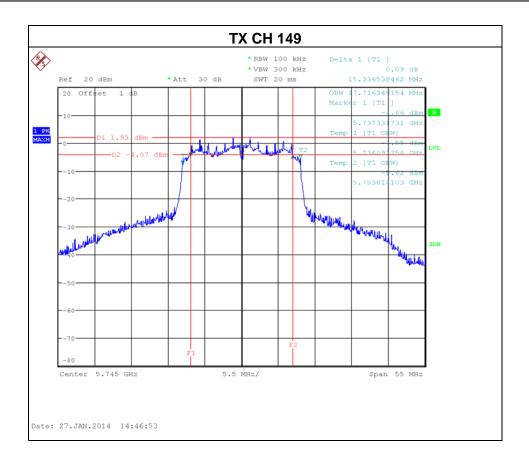
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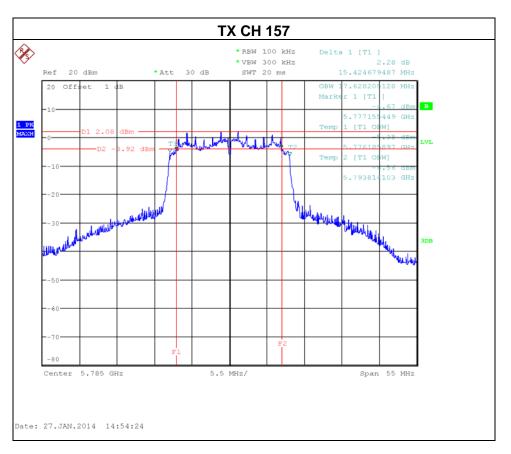


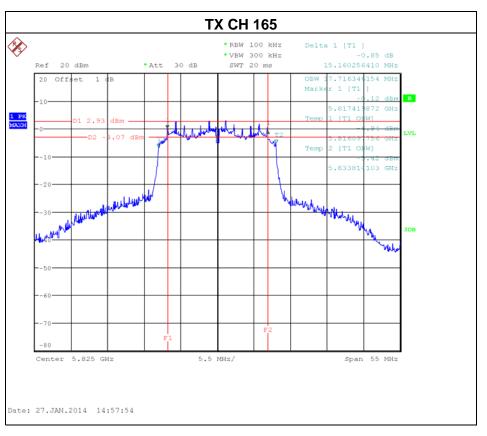
Test Mode: TX N-20MHz Mode_CH149/157/165_ANT 2



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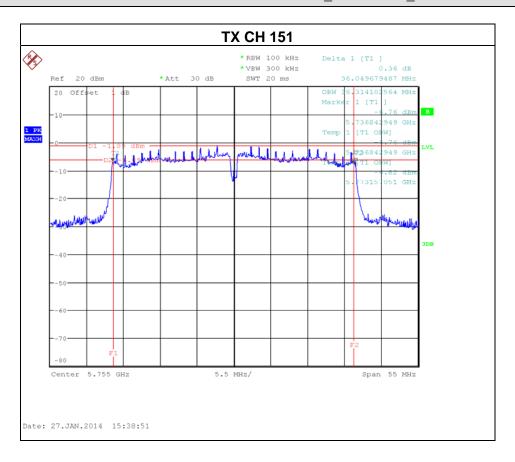






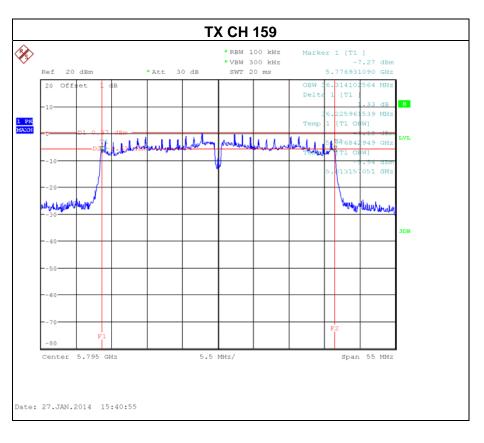
Report No.: NEI-FCCP-3-1401C155

Test Mode: TX N-40MHz Mode_CH151/159_ANT 1



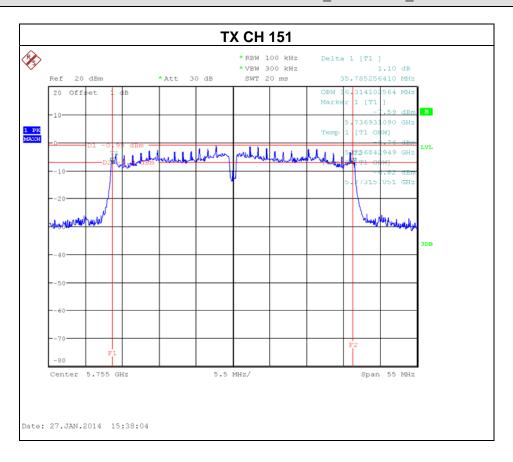
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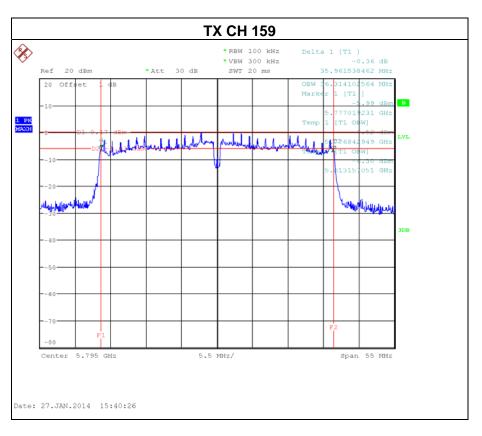
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Test Mode: TX N-40MHz Mode_CH151/159_ANT 2



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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	5725 - 5825	PASS		

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	, c., c. Meter

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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6.1.6 TEST RESULTS

Test Mode : TX A Mode					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)	
CH149	5745	20.11	30	1	
CH157	5785	20.20	30	1	
CH165	5825	20.46	30	1	

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Test Mode : TX N-20M Mode_ANT 1					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)	
CH149	5745	19.73	30	1	
CH157	5785	19.70	30	1	
CH165	5825	19.63	30	1	

Test Mode : TX N-20M Mode_ANT 2					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)	
CH149	5745	19.54	30	1	
CH157	5785	19.65	30	1	
CH165	5825	19.72	30	1	

Test Mode : TX N-20M Mode_Total					
Test Channel	Frequency	Output Power	Limit	Limit	
rest orialine	(MHz)	(dBm)	(dBm)	(Watt)	
CH149	5745	22.65	30	1	
CH157	5785	22.69	30	1	
CH165	5825	22.69	30	1	

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	Test Mode : TX N-40M Mode_ANT 1					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)		
CH151	5755	19.46	30	1		
CH159	5795	19.53	30	1		

Test Mode : TX N-40M Mode_ANT 2					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)	
CH151	5755	19.71	30	1	
CH159	5795	19.86	30	1	

Test Mode : TX N-40M Mode_Total					
Test Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Limit (Watt)	
CH151	5755	22.60	30	1	
CH159	5795	22.71	30	1	

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

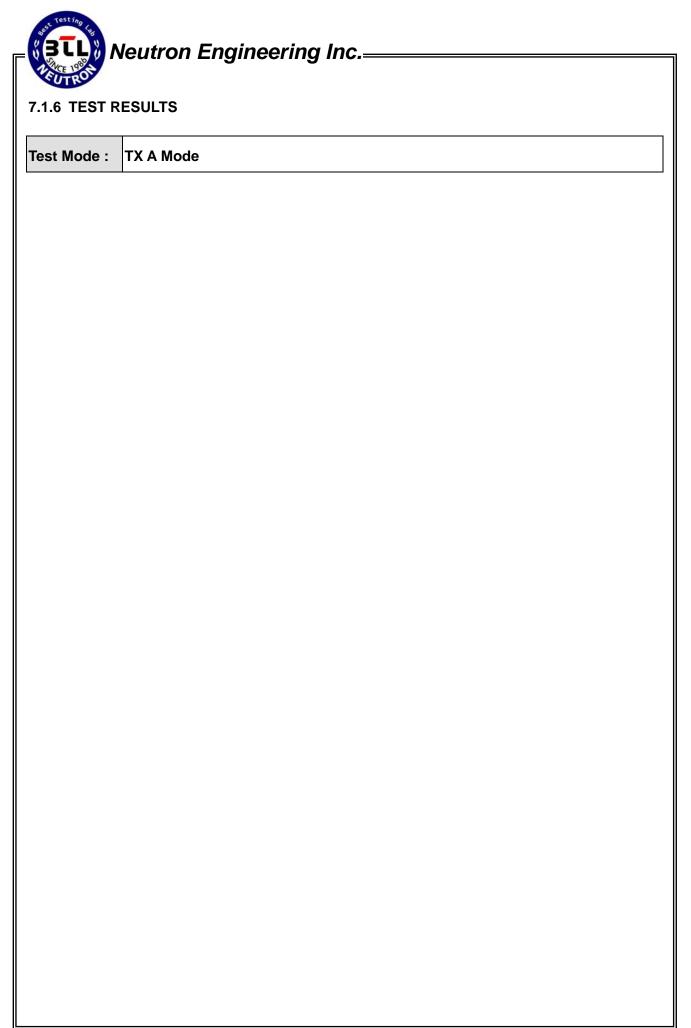
7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

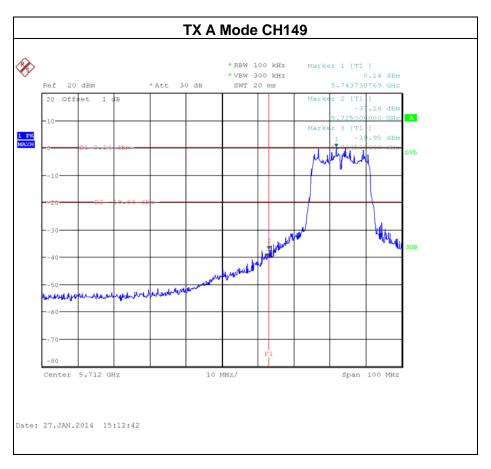
Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

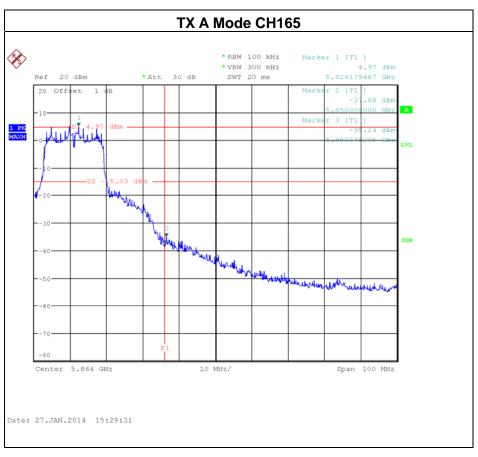
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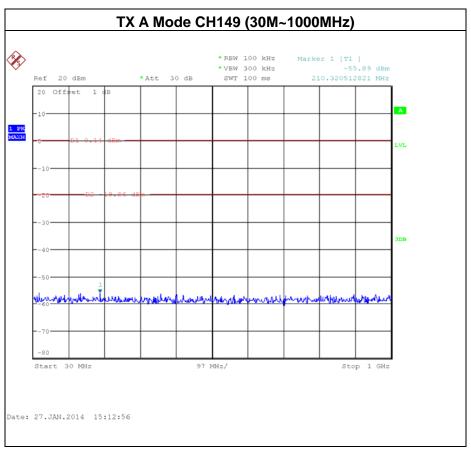


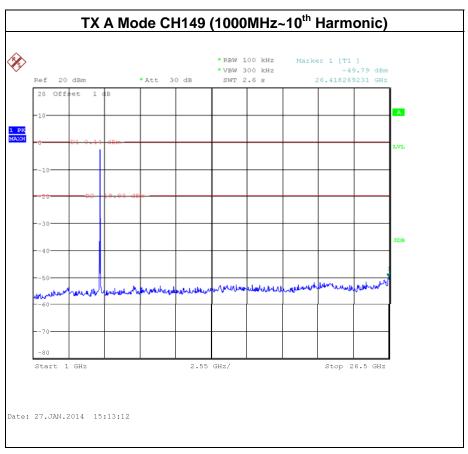


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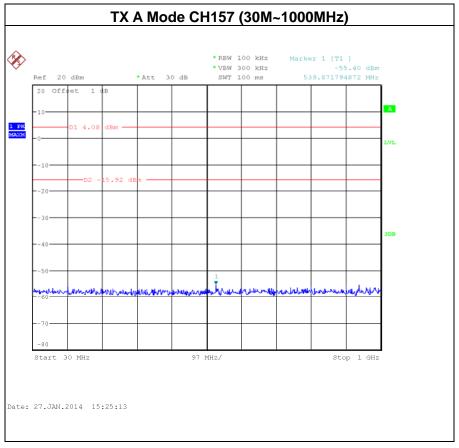


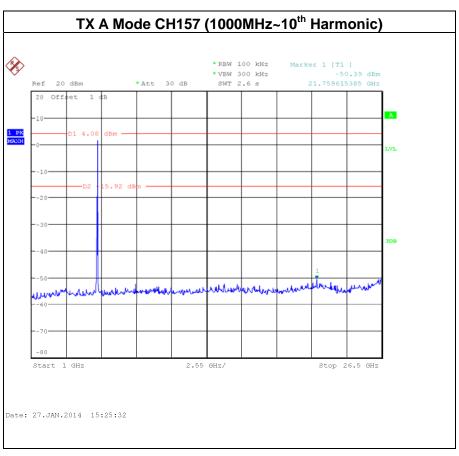




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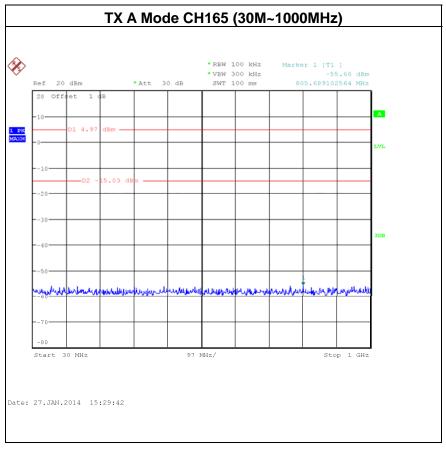


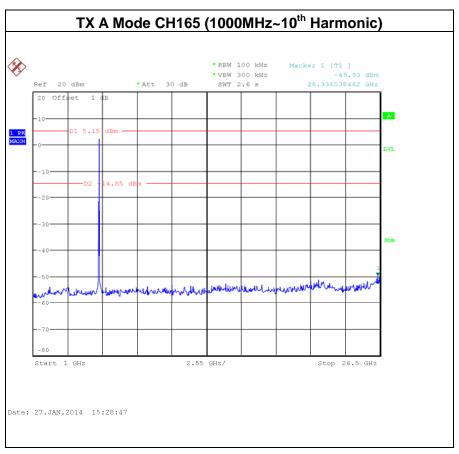




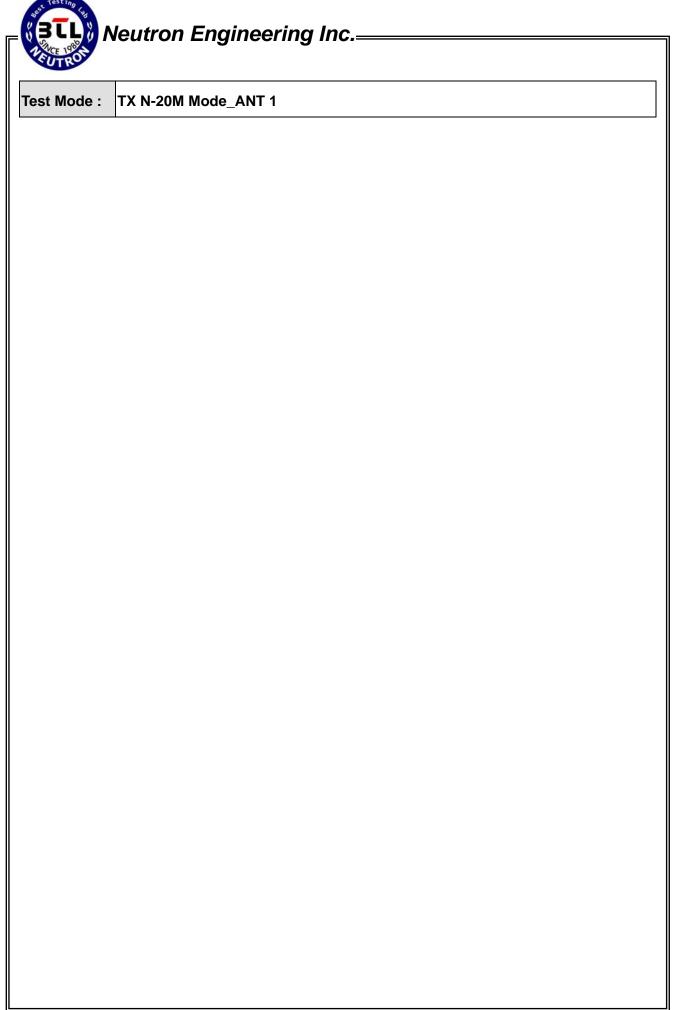
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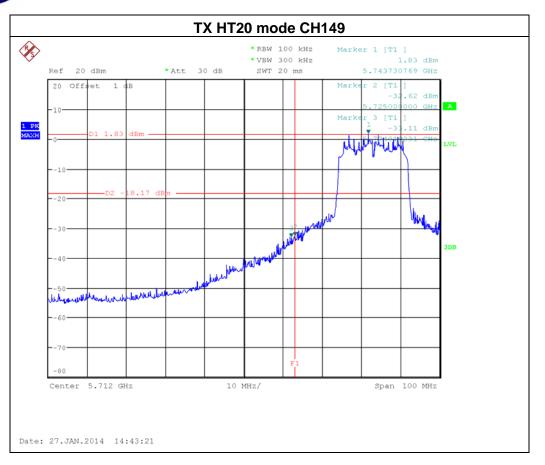


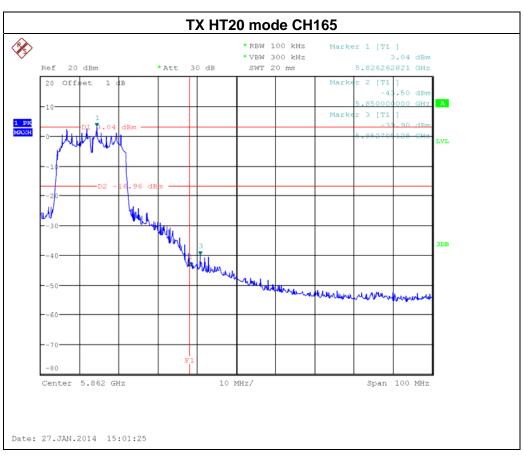
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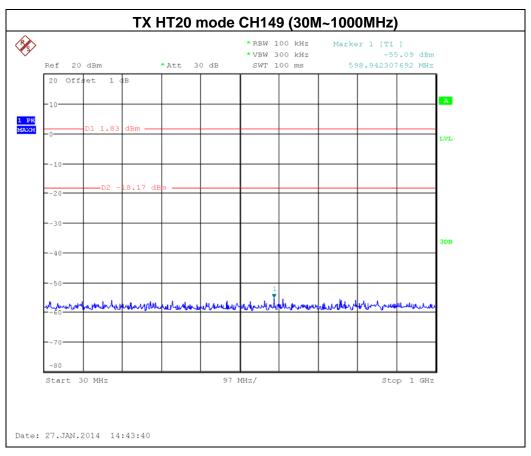
Report No.: NEI-FCCP-3-1401C155 Page 71 of 107

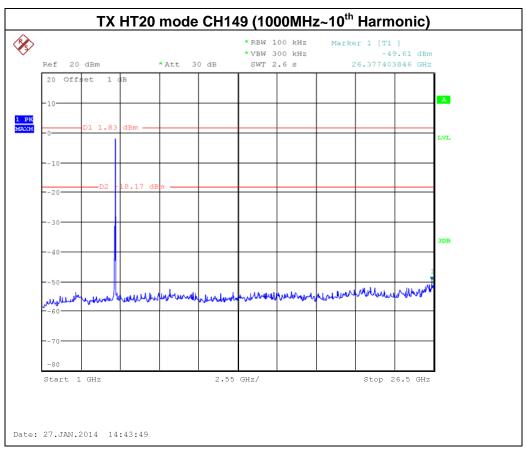




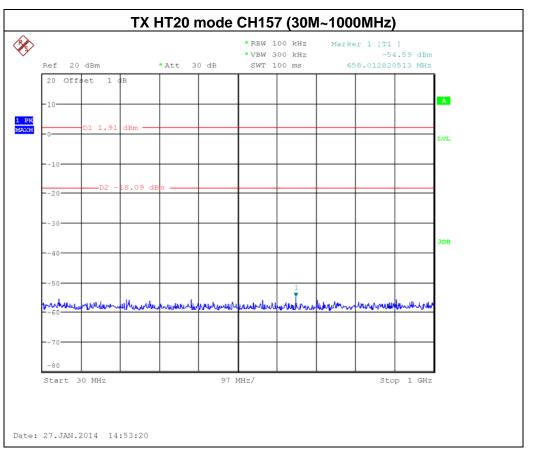


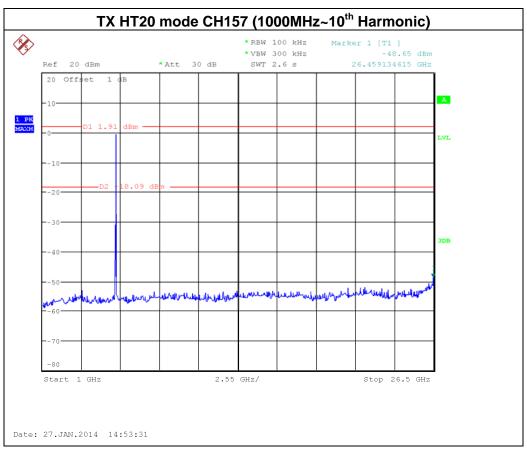
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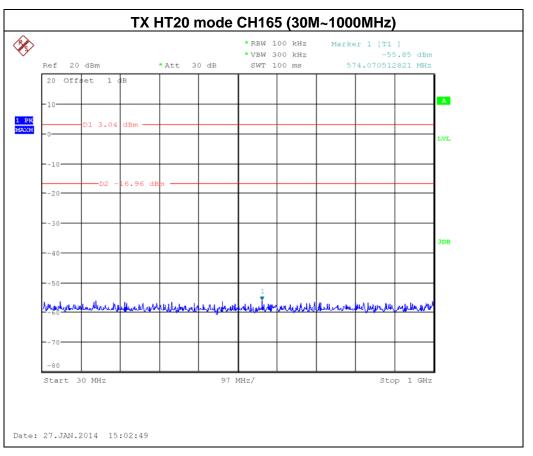


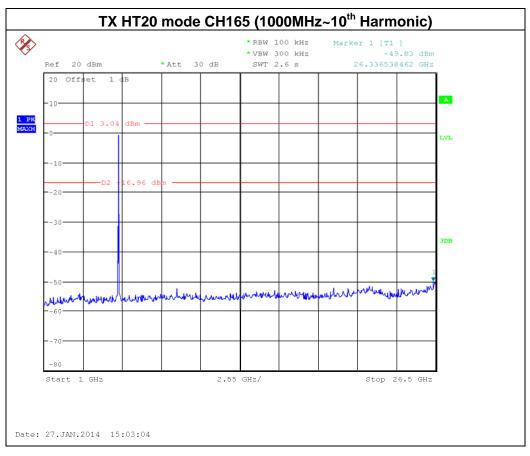
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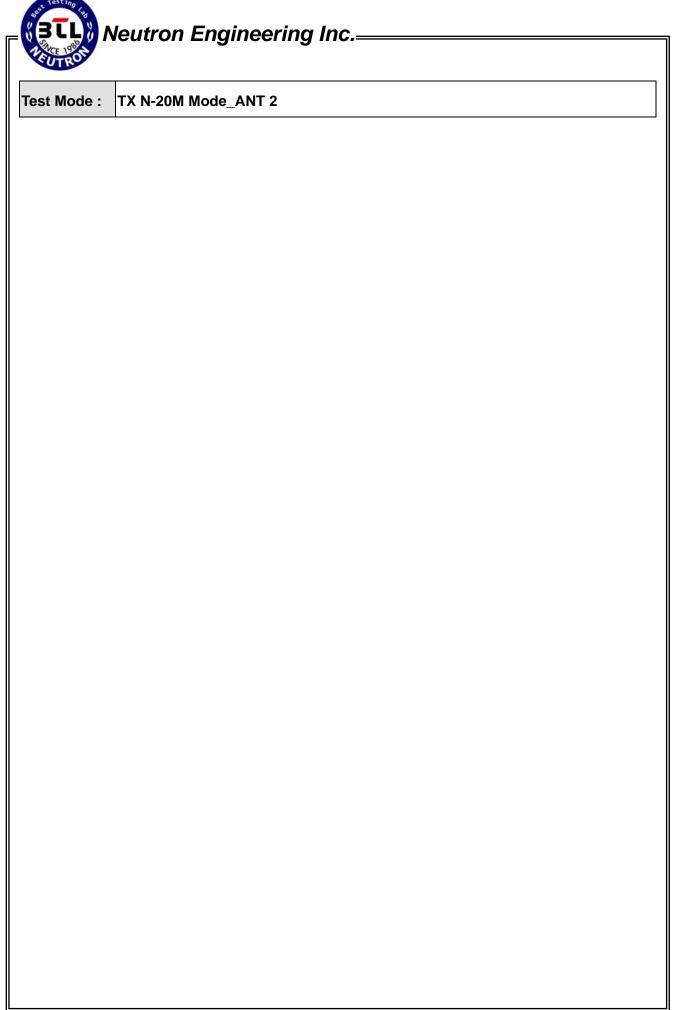


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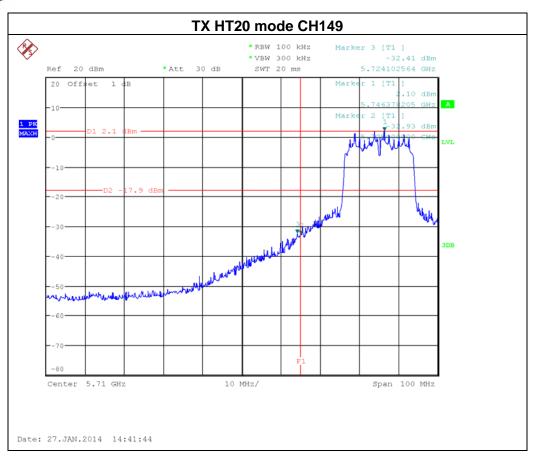


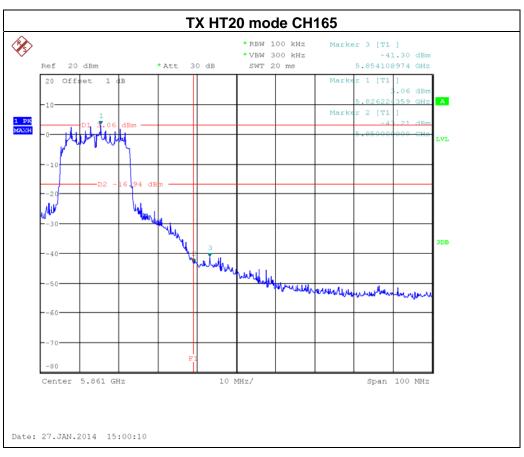


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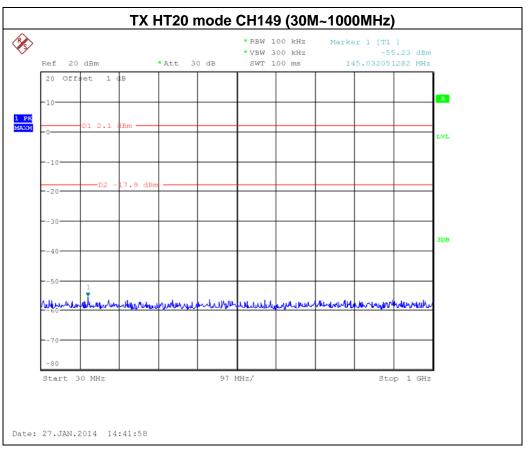


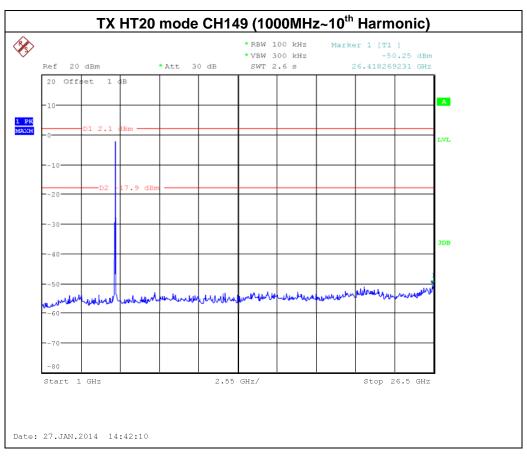
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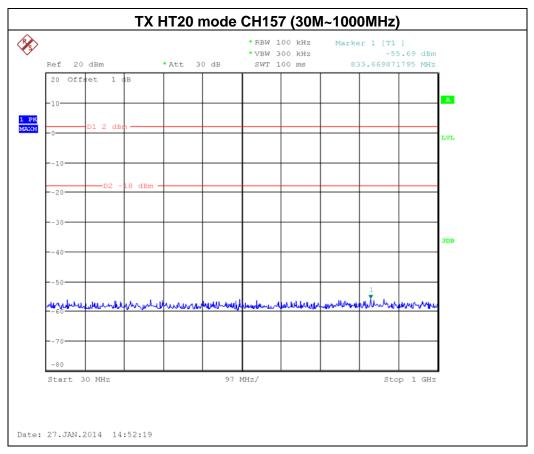


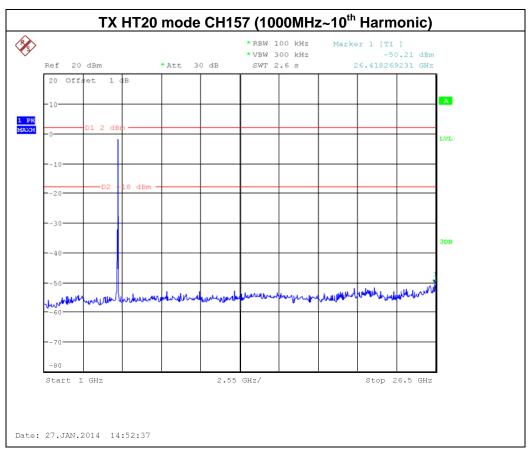
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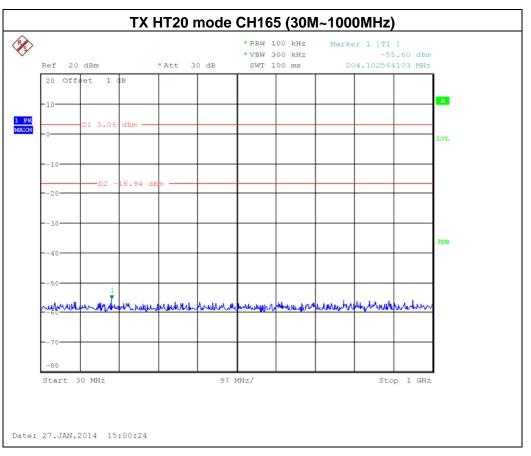


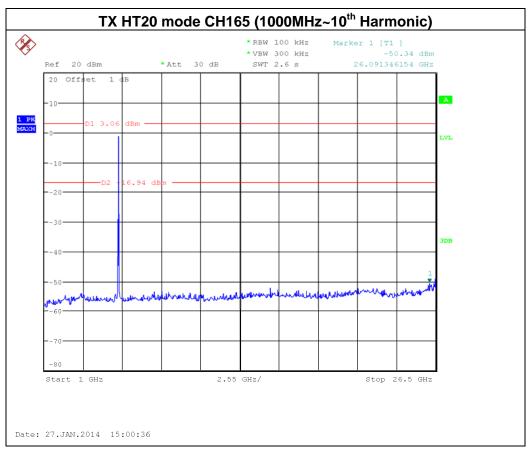
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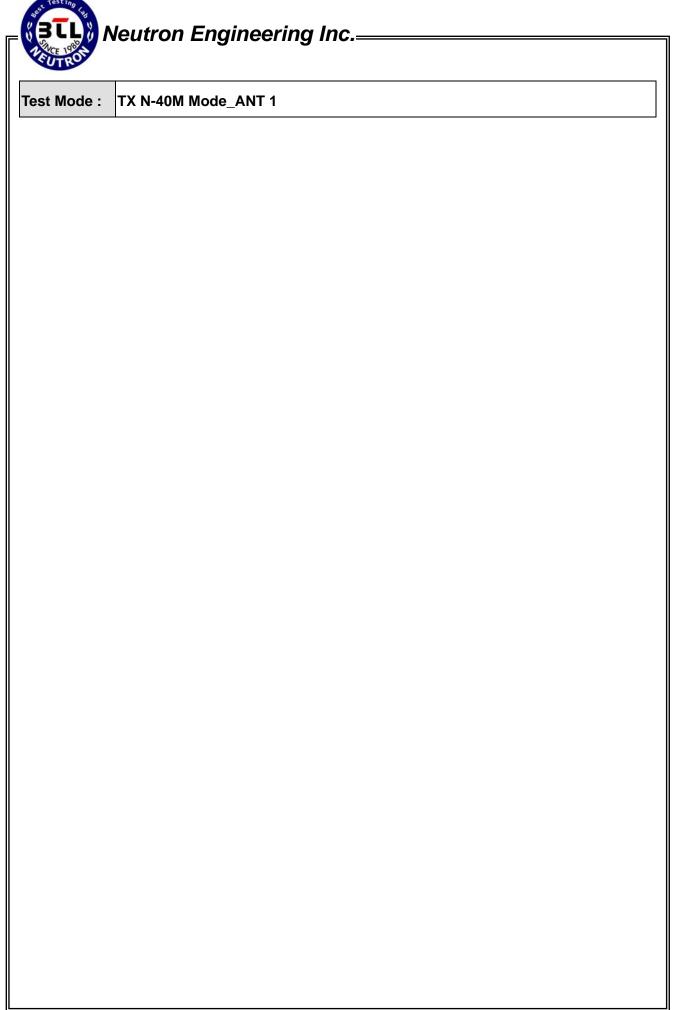


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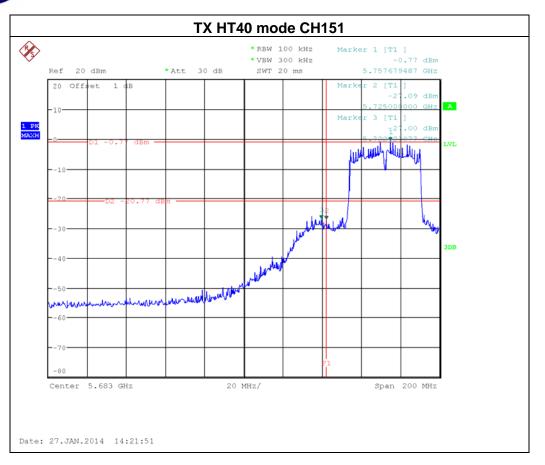


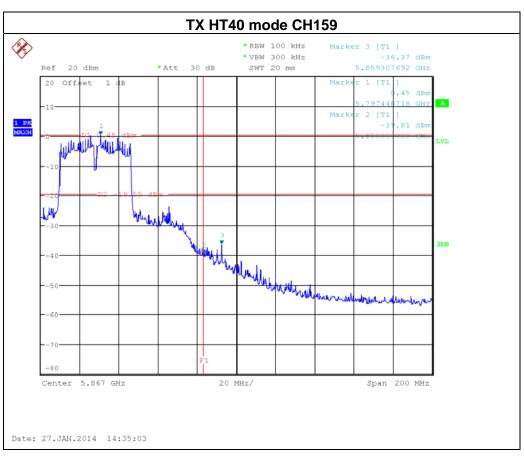


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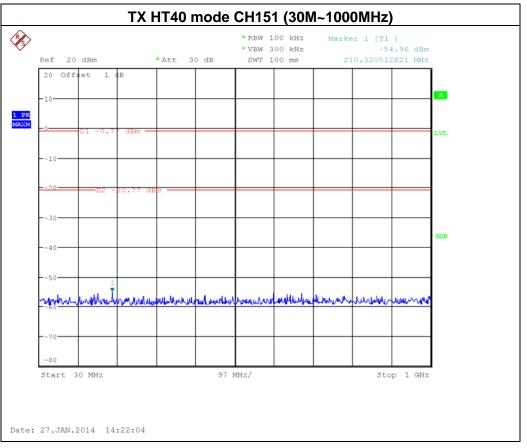


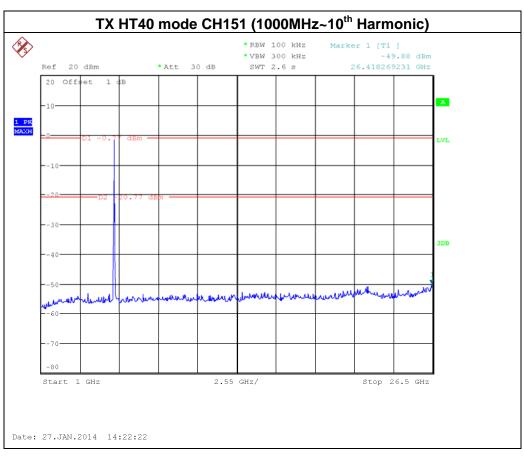
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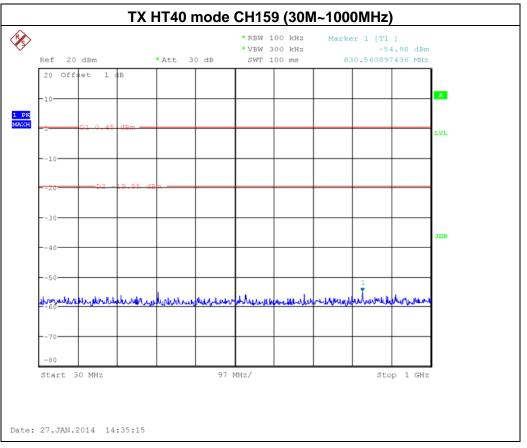


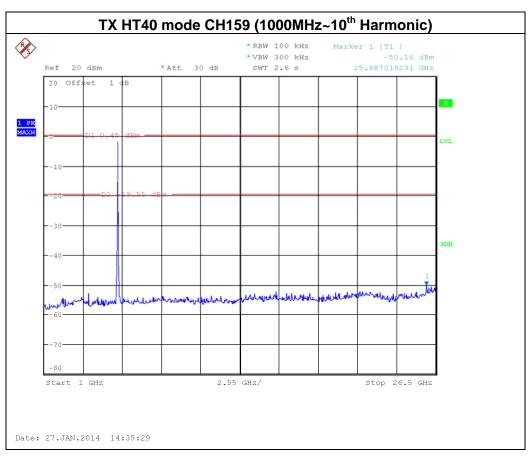
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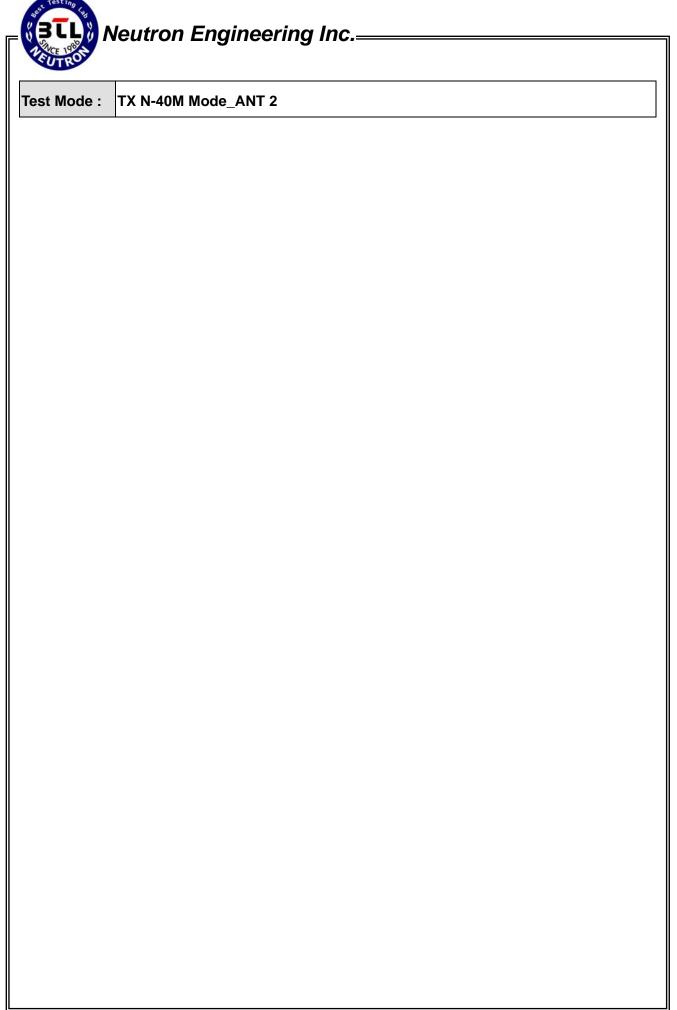


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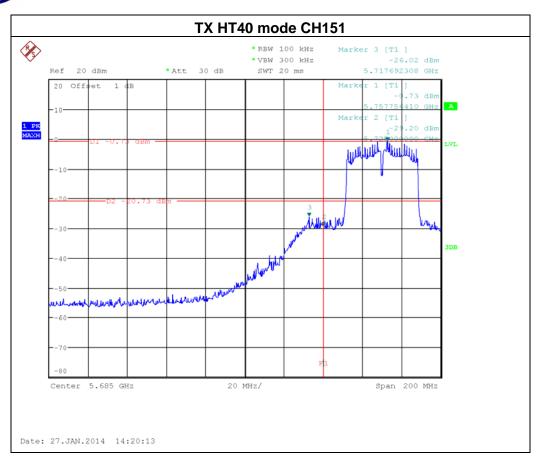


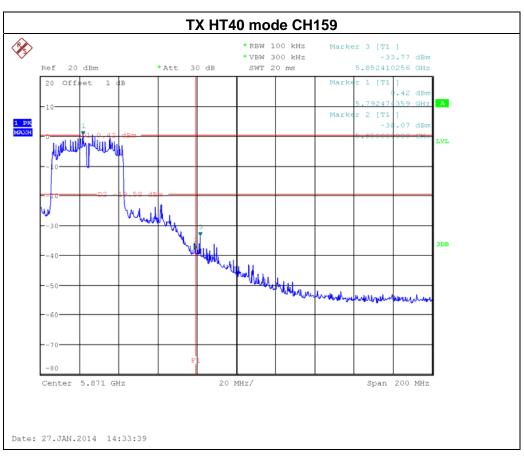


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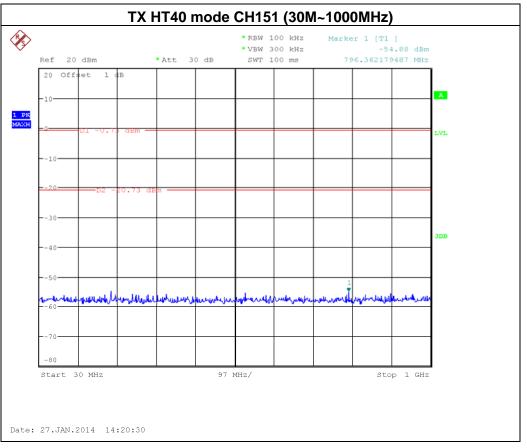


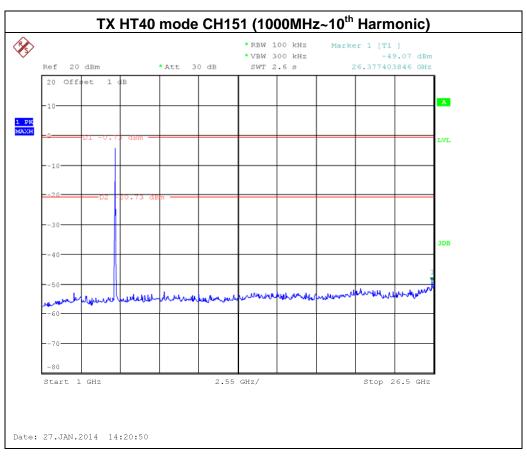
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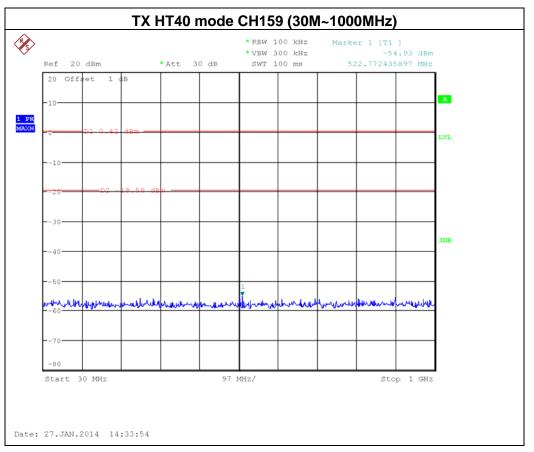


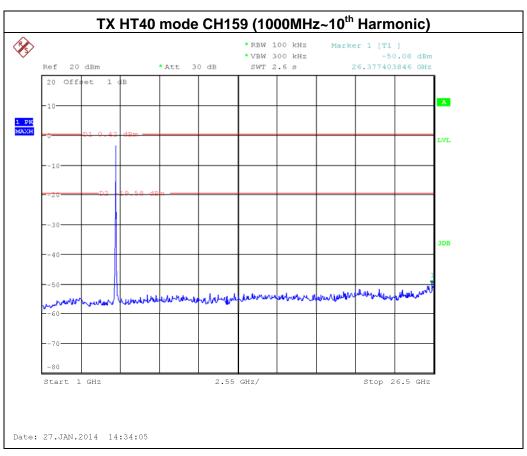
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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section Test Item Limit Frequency Range (MHz) Result						
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	5745 - 5825	PASS		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

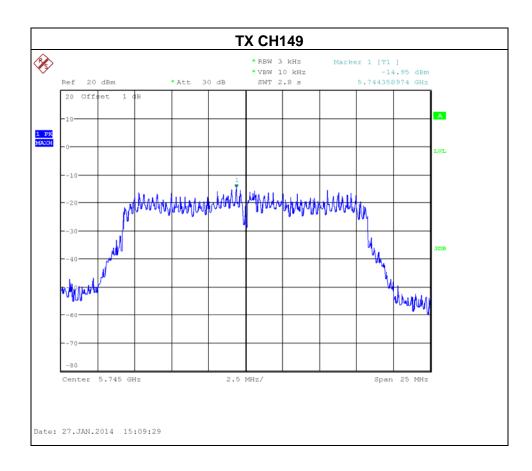
Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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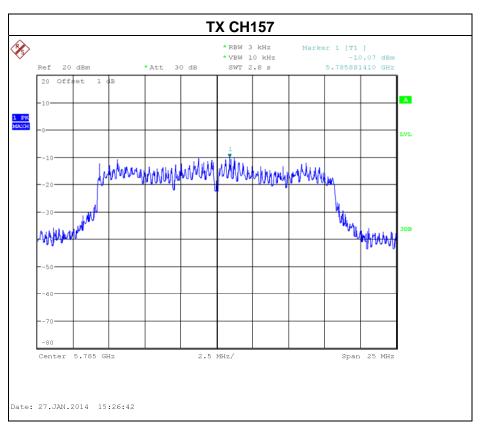
8.1.6 TEST RESULTS

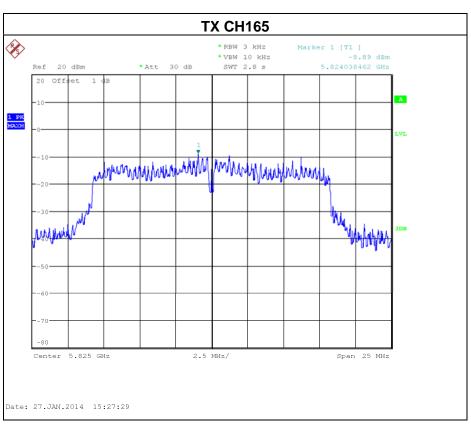
Test Mode :TX A Mode_CH149/157/165



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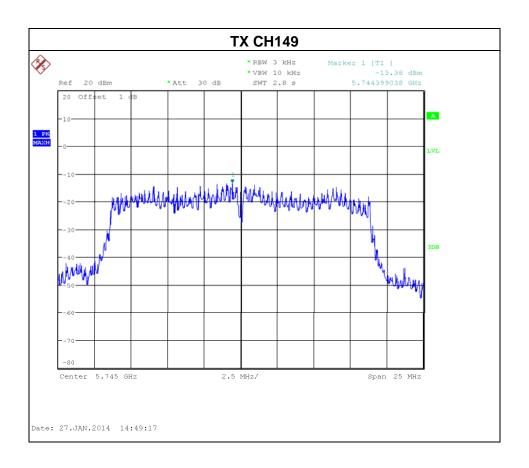






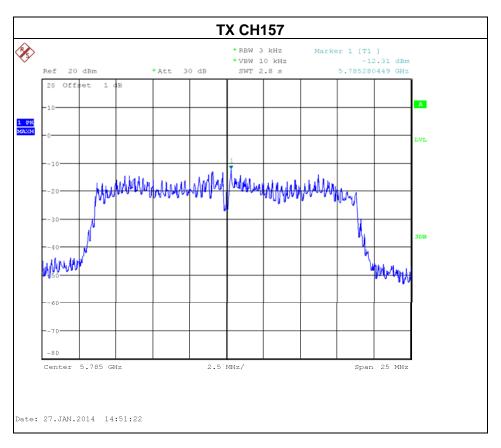
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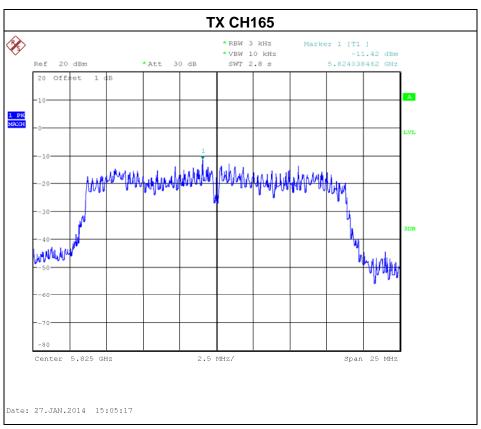
Test Mode: TX N-20M Mode_CH149/157/165_ANT 1



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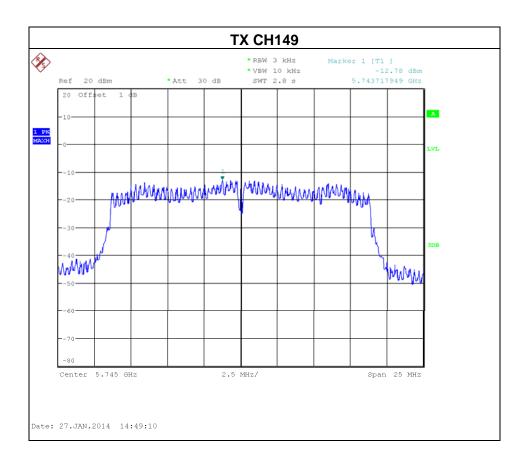






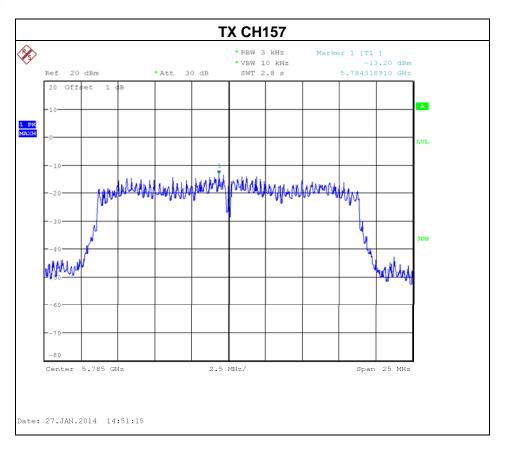
Report No.: NEI-FCCP-3-1401C155

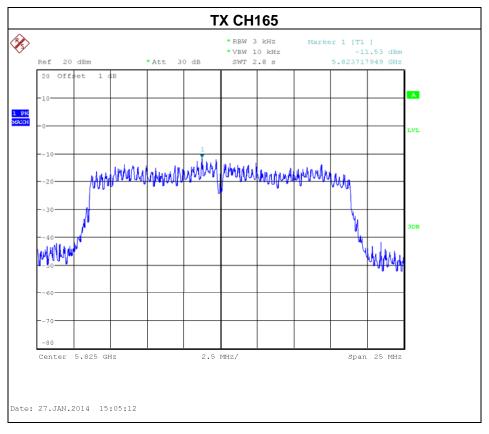
Test Mode: TX N-20M Mode_CH149/157/165_ANT 2



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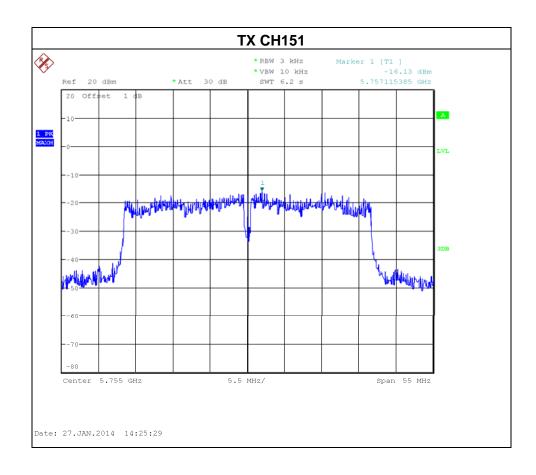
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Test Mode : TX N-20M Mode_CH149/157/165_Total						
Test Channel	Frequency	Power Density	Limit			
Test Oriannei	(MHz)	(dBm)	(dBm)			
CH149	5745	-10.06	8			
CH157	5785	-9.72	8			
CH165	5825	-8.46	8			

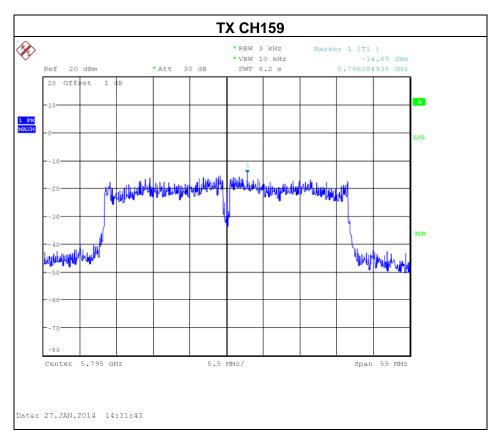
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Test Mode: TX N-40M Mode_CH151/159_ANT 1



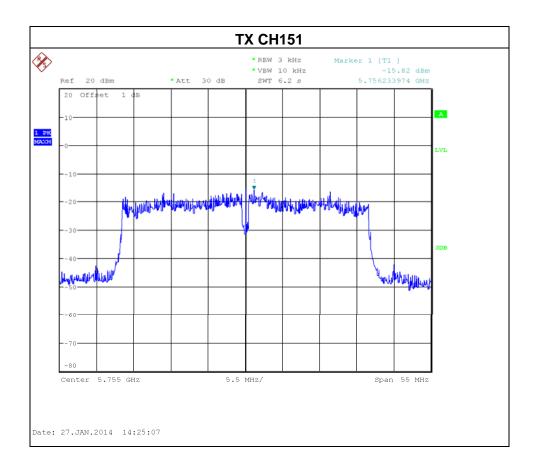
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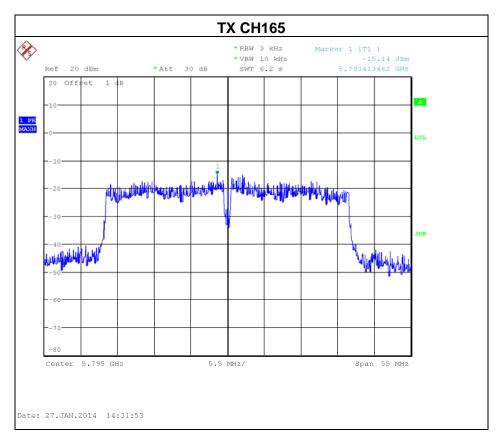
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Test Mode: TX N-40M Mode_CH151/159_ANT 2



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Test Mode : TX N-40M Mode_CH151/159_Total						
Test Channel	Frequency	Power Density	Limit			
rest orialine	(MHz)	(dBm)	(dBm)			
CH151	5755	-12.96	8			
CH159	5795	-11.90	8			

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014		
2	LISN	R&S	ENV216	100087	Nov. 09, 2014		
3	Test Cable	N/A	C_17	N/A	Mar.15, 2014		
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014		
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014		

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014		
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014		
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014		
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014		
5	Antenna	ETS	3115	00075789	Apr. 25, 2014		
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014		
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014		
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014		
9	Controller	CT	SC100	N/A	N/A		
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014		
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014		
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014		

	6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

	Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 25, 2014	
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 25, 2014	

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	Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

	Power Spectral Density Measurement					
Item	Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos 9K~30MHz



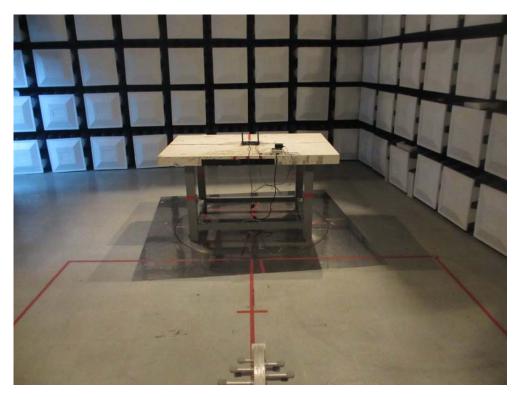


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Radiated Measurement Photos 30~1000MHz

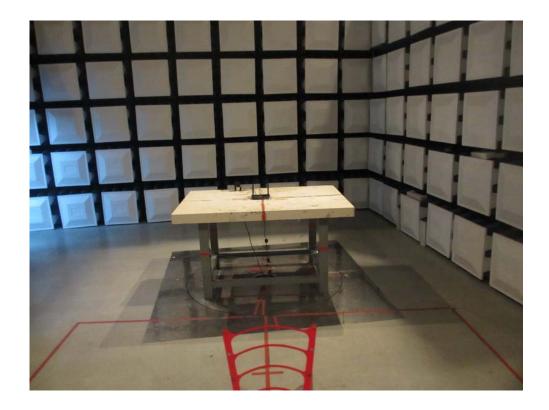




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Radiated Measurement Photos Above 1000MHz





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